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SUBJECT CLASSIFICATION

This is a list of headings, with code numbers, under which articles were classified during 1963. The headings in capital letters are essentially identical with those appearing in the 1963 monthly issues.

00. GENERAL

- 00 General mathematics
- 02 Other fields
- 04 Collections of papers
- 08 General textbooks and handbooks
- 10 Collections of formulas
- 20 Bibliographies
- 30 Dictionaries and other reference works
- 40 Reports of meetings
- 45 Mathematics as an occupation
- 50 Methodology and philosophy of mathematics
- Philosophy of science, general
- 60 Relation of mathematics with the humanities
- 70 Didactics
- 80 General popularizations
- 90 Recreational mathematics, miscellaneous

01. HISTORY AND BIOGRAPHY

- 05 Ancient
- 10 India, Far East, Maya, etc.
- 15 Medieval and Renaissance
- 20 17th century
- 25 18th century
- 30 19th century
- 35 20th century
- 40 Contemporary
- 50 Biographies, obituaries, personalia
- 60 Collected or selected works; reprintings or translations of classics
- 70 Source books

02. LOGIC AND FOUNDATIONS

- 15 Formalizing verbal reasoning
- 20 Syntax, semantics, deducibility
- 30 Propositional calculus: two-valued
- 32 Logical calculus: first-order, two-valued (functional calculus)
- 40 Logistic, axiomatic set theory, paradoxes
- 50 Many-valued logic, modal logic
- 60 Recursive function theory, Turing computability
- 70 Intuitionism
- 75 Axioms for mathematical systems
- 80 Metatheorems for mathematical systems
- 90 Undecidability, unsolvability in mathematical systems

04. SET THEORY

- 15 Point sets
- 20 Relations
- 30 Transfinite numbers
- 35 Problem of the continuum
- 60 Combinatorial (partitions, etc.)

05. COMBINATORIAL ANALYSIS

- 10 Partitioning, subsets, etc.
- 20 Matrices, magic squares, block designs, configurations
- 30 Factorials, binomial coefficients, polynomials, power series
- 40 Graphs
- 50 Enumeration of graphs

06. ORDER, LATTICES

- 10 Total order
- 20 Partial order
- 30 Lattices

- 40 Modular lattices, continuous geometries
- 50 Distributive lattices
- 60 Boolean algebras and rings
- 70 Boolean algebras with operators

08. GENERAL MATHEMATICAL SYSTEMS

10. THEORY OF NUMBERS

- 005 Tables
- 01 Elementary
- 02 Divisibility and factorization
- 03 Arithmetical functions
- 04 General elementary theory of congruences; Diophantine equations of degree 1
- 05 Power residues and reciprocity laws, primitive roots, indices; general binomial congruences
- 06 Continued fraction, decimal and other algorithmic expansions
- 07 Combinatorial problems
- 08 Special integers (or rationals), special sequences of integers (or rationals)
- 09 Arithmetic properties of special functions; integer-valued polynomials
- 10 Diophantine equations
- 12 Polynomial Diophantine equations of degree 1
- 14 Fermat conjecture
- 16 Miscellaneous Diophantine equations (exponential, etc.)
- 18 Rational points on algebraic varieties
- 20 Diophantine approximation
- 25 Continued fractions
- 26 Distribution of digits (for any type of expansion)
- 28 Irrationality, transcendence
- 30 Forms
- 31 Linear forms
- 32 Quadratic and hermitian forms
- 34 Forms of degree 2
- 40 Geometry of numbers
- 42 Lattices; convex and other bodies
- 44 Products of linear forms
- 50 Exponential and power sums
- 52 Character sums
- 53 Lattice points
- 54 Turán's method
- 55 Modular and automorphic functions, forms, and groups
- 60 Multiplicative asymptotic theory
- 62 Zeta-function and other Dirichlet series
- 64 Character sums, asymptotic theory
- 65 Distribution of primes
- 70 Additive asymptotic theory
- 72 Sums of squares, Waring's problem
- 74 Partitions
- 75 Sequences of integers (additive bases, density theorems, etc.)
- 80 Probabilistic number theory
- 82 Distribution mod 1
- 84 Regular distribution
- 85 Arithmetic of hypercomplex numbers
- 90 Algebraic number theory
- 91 Quadratic fields
- 92 Cyclotomic fields
- 95 Class field theory
- 96 Algebraic function fields
- 97 p -adic fields
- 98 Finite fields

SUBJECT CLASSIFICATION

12. FIELDS AND POLYNOMIALS

- 20 Finite fields
- 30 Polynomials
- 40 Galois theory
- 50 Algebraic number fields
- 60 Algebraic function fields
- 70 Valuations, topological fields
- 80 Differential and difference algebra

14. ABSTRACT ALGEBRAIC GEOMETRY (for classical algebraic geometry, see 50.00)

- 10 Theories of equivalence
- 15 Transformations and correspondences
- 20 Curves
- 35 Algebraic properties of function fields
- 40 Arithmetical properties of varieties
- 45 Algebraic geometry over special fields or over rings; rationality questions
- 50 Group varieties, abstract analytic groups
- 52 Abstract derivations and differentials
- 55 Sheaf-theoretic and homological methods
- 60 Birational invariants, genera, etc.

15. LINEAR ALGEBRA

- 05 Vector spaces
- 15 Linear inequalities
- 20 Inequalities involving eigenvalues and eigenvectors
- 25 Miscellaneous inequalities involving matrices
- 30 Eigenvalues and eigenvectors
- 33 Canonical forms, reductions
- 36 Linear sets of linear transformations
- 38 Matrix equations and identities
- 39 Invariants
- 40 Multilinear algebra
- 48 Determinants
- 49 Permanents
- 50 Linear equations, matrix inversion

16. ASSOCIATIVE RINGS AND ALGEBRAS

- 10 Ideal theory
- 15 Commutative ideal theory
- 20 General commutative theory
- 24 Polynomials
- 26 Formal power series
- 28 Local rings
- 30 Division rings, simple rings and algebras
- 40 Radical theory
- 45 Rings with chain condition
- 50 Linear representations of rings and algebras (including orders)
- 60 Modules
- 70 Galois theory
- 80 Ordered rings
- 90 Topological rings
- 95 Semi-rings, etc.

17. NON-ASSOCIATIVE RINGS AND ALGEBRAS

18. HOMOLOGICAL ALGEBRA

20. GROUP THEORY AND GENERALIZATIONS

- 10 Free groups, relations
- 14 General products of groups
- 16 Group extensions
- 20 Permutation groups
- 25 Finite groups (including finite abelian)
- 28 Burnside problem, conditions for finiteness
- 30 Abelian groups, general theory
- 40 Nilpotent, solvable, p -groups
- 45 Groups with local properties
- 50 Lattices of subgroups

- 55 Special subgroups
- 60 Crystallographic and discrete geometric groups
- 65 Modular groups, discrete subgroups of classical groups
- 70 Classical groups
- 75 Linear groups, general
- 80 Representations, characters, group algebras
- 85 Representations of symmetric groups
- 88 Automorphisms and endomorphisms, groups with operators
- 90 Ordered groups, ordered semigroups
- 92 Semigroups
- 94 Groupoids
- 96 Quasigroups
- 98 Loops

22. TOPOLOGICAL GROUPS AND LIE THEORY

- 10 Topological groups
- 12 Haar measures
- 15 Topological algebras
- 40 Transformation groups
- 50 Lie groups
- 55 Classical groups
- 60 Representations and analysis
- 70 Homogeneous spaces (topology, differential geometry)
- 80 Lie algebras
- 90 Abstract Lie theory
- 95 Infinite Lie groups
- 99 Lie theory of differential equations

26. FUNCTIONS OF REAL VARIABLES

- 10 Foundations: limits and generalizations (elementary topology of the line (or plane) if used for real variables)
- 20 Calculus: elementary, advanced, etc.
- 21 Elementary functions
- 30 Continuity and related questions (modulus of continuity [if not used in boundary behaviour of analytic functions], discontinuities, etc.)
- 40 Differentiation: general theory
- 41 Non-differentiability (non-differentiable functions, points of non-differentiability), discontinuous derivatives
- 43 Generalized derivatives, derivatives of fractional order
- 47 Mean-value theorems
- 50 Monotonic functions, general
- 51 Functions of bounded variation; absolute continuity
- 52 Convexity; generalizations
- 53 Generalized monotonic functions
- 55 Several variables, implicit function theorems, Jacobians. Transformations with several variables
- 56 Length, area, volume
- 60 Polynomials
- 70 Inequalities (of a general and miscellaneous character)
- 80 Real-analytic functions
- 81 Quasi-analytic classes of real functions, functions of class C^∞
- 85 Superposition of functions

28. MEASURE AND INTEGRATION

- 10 Measurable sets, general: Borel fields, non-measurable sets
- 12 Analytic and Suslin sets
- 13 Finitely additive set functions, measures; generalizations
- 15 Special and generalized measures, Carathéodory theory of measure
- 17 Transfinite diameter and capacity. Hausdorff measures and capacities
- 20 Measurable and non-measurable functions
- 25 Integration, general
- 26 Riemann integral, Lebesgue integral, Denjoy integral, etc.
- 30 Measure-preserving transformations
- 31 Invariant measures
- 32 Ergodic theorems
- 33 Dynamical systems
- 40 Length, area, volume
- 41 Other geometric measure theory

SUBJECT CLASSIFICATION

30. FUNCTIONS OF A COMPLEX VARIABLE

- 01 General questions, foundations
- 02 Monogenic properties of complex functions (also polygenic and areolar monogenic functions)
- 09 Inequalities in the complex domain
- 10 Polynomials
- 11 Zeros of polynomials
- 20 Power series
- 21 Behavior on the boundary of convergence. Overconvergence
- 24 Dirichlet series
- 25 Continued fractions
- 28 Analytic continuation
- 30 Sequences and series of analytic functions; uniform convergence, normal families, normal functions
- 35 Integration; integral representations; Cauchy integral, Poisson and Poisson-Stieltjes integrals
- 36 Moment problems; interpolation problem
- 40 Conformal mapping, general theory
- 41 Capacity, harmonic measure
- 42 Univalent and p -valent functions
- 43 Coefficient problems
- 45 Riemann surfaces, uniformization
- 46 Algebraic functions, Abelian integrals
- 47 Quasiconformal mapping
- 49 Automorphic functions and modular functions
- 50 Maximum principle. Schwarz's lemma, Phragmén-Lindelöf theorems
- 52 Extremal problems in complex domain
- 55 Entire functions
- 60 Meromorphic functions, general theory
- 61 Distribution of values, Picard-type theorems, Nevanlinna theory, defect (deficiency) theory
- 62 Theory of cluster sets, prime ends, boundary behavior
- 65 Bounded functions, positive real part, Blaschke products
- 66 Bounded mean modulus, bounded characteristic
- 67 H_p classes and other restrictions
- 70 Approximation by polynomials and rational functions, Faber polynomials
- 75 Boundary-value problems, Dirichlet problem
- 77 Special boundary-value problems; Riemann-Hilbert problem. Inverse boundary problems
- 79 Algebroidal functions
- 80 Topological function theory, functions topologically equivalent to analytic mappings
- 81 Generalized analytic mappings. Pseudo-analytic functions of Bers, Vekua, etc.
- 83 Functions of hypercomplex variables and generalized variables
- 85 Spaces of analytic functions
- 86 Kernel function and applications
- 87 Algebras of analytic functions

31. POTENTIAL THEORY

- 10 Harmonic functions in the plane
- 11 Harmonic functions, general
- 15 Subharmonic, superharmonic functions
- 20 Boundary-value problems, Dirichlet problem
- 21 Capacity and harmonic measure
- 22 Generalized capacity and potential
- 30 Biharmonic and polyharmonic functions and equations
- 35 Poisson's equation

32. SEVERAL COMPLEX VARIABLES

- 02 Foundations, general questions
- 10 Multiple power series, formal theory
- 15 Analytic and meromorphic curves
- 20 Holomorphic mappings, domains of holomorphy, analytic spaces (see also 57.00)
- 25 Automorphic functions
- 30 Approximation theorems

33. SPECIAL FUNCTIONS

- 04 Number-theoretic functions, special sequences

- 05 Tables of special functions
- 10 Exponential and trigonometric functions
- 15 Gamma and Beta functions
- 17 Error function, probability integral
- 19 Elliptic functions and integrals
- 20 Hypergeometric functions
- 21 E -functions
- 25 Cylindrical functions; Bessel functions
- 27 Spherical functions; Legendre polynomials and functions, spherical harmonics, ultraspherical polynomials
- 28 Lamé, Mathieu, spheroidal wave functions
- 30 Wave functions
- 32 Gegenbauer functions
- 40 Orthogonal polynomials, general (Chebyshev, Hermite, Jacobi, Laguerre polynomials and functions)

34. ORDINARY DIFFERENTIAL EQUATIONS

- 02 Solutions in closed form; integration by quadratures; reduction of differential equations
- 03 Operational calculus
- 04 General existence and uniqueness theorems, Picard approximations and generalizations
- 07 Continuous dependence of solution on parameter
- 10 Analytic theory
- 20 Linear equations and systems, general coefficients
- 21 Linear equations with constant coefficients
- 22 Linear equations with periodic and almost periodic coefficients
- 30 Boundary-value problems, linear equations
- 31 Sturm-Liouville theory
- 33 Eigenvalues, eigenfunctions
- 33 Eigenfunction expansions
- 34 Asymptotic properties of eigenfunctions
- 36 Boundary-value problems, non-linear
- 40 Qualitative theory of first- and second-order equations and systems; singular points and limit cycles
- 41 Periodic and almost periodic solutions
- 42 Non-linear oscillations
- 43 Stability of first- and second-order equations and systems
- 50 Qualitative theory of equations and systems of order greater than 2; asymptotic behavior of solutions
- 51 Stability; periodic and almost periodic solutions
- 53 Perturbations
- 54 Singular perturbations; small parameter with highest derivative
- 60 Stochastic differential equations
- 65 Dynamical systems, systems on manifolds
- 70 Equations and systems of infinite order
- 75 Difference-differential equations
- 76 Solution by finite differences
- 80 Differential equations in Banach and other spaces
- 85 Optimal control problems

35. PARTIAL DIFFERENTIAL EQUATIONS

- 05 General properties of solutions, Cauchy-Kowalewski theorems, etc.
- 10 First-order equations and systems
- 12 Classification of equations and systems
- 13 Exact equations and integrable systems. Pfaffian equations
- 15 Characteristics
- 20 Separation of variables, elementary properties of the equations of mathematical physics
- 30 Elliptic equations and systems of first and second order
- 31 Strongly elliptic systems
- 32 Quasi-linear elliptic equations and systems
- 33 Schrödinger equation, wave equation
- 34 Maxwell's equations, Helmholtz equation
- 35 Spectral analysis, eigenfunctions, operators
- 36 Elliptic systems and equations of higher order
- 37 Biharmonic equation
- 40 Hyperbolic equations and systems of second order
- 41 Quasi-linear hyperbolic systems and equations of second order

SUBJECT CLASSIFICATION

- 45 Hyperbolic equations and systems of higher order
Parabolic equations of second order
 - 55 Equations of mixed type and second order
Mixed type, order higher than two
Non-linear equations and systems
 - 62 Approximation of solutions
Solution by finite differences
 - 65 Special equations: Navier-Stokes, etc.
 - 70 Asymptotic properties
 - 75 Infinite systems, equations of infinite order
Equations in Banach spaces and other spaces
39. FINITE DIFFERENCES AND FUNCTIONAL EQUATIONS
- 10 Finite differences, general
 - 12 Solution of ordinary differential equations by finite differences
 - 13 Solution of partial differential equations by finite differences
 - 20 Difference equations
 - 30 Functional equations
40. SEQUENCES, SERIES, SUMMABILITY
- 10 Series and sequences of numbers, general
 - 11 Infinite products
 - 12 Continued fractions
 - 13 Convergence
 - 15 Multiple series and sequences
 - 20 Sequences and series of functions, convergence
 - 30 Summability, general methods
 - 31 Summability, matrix methods
 - 32 Cesàro summability
 - 33 Abel, Poisson summability
 - 35 Summability of double series
 - 40 Convergence and summability of integrals
 - 42 Tauberian theorems
41. APPROXIMATIONS AND EXPANSIONS
- 10 Interpolation
 - 15 Polynomial approximation
 - 17 Approximation by rational functions
 - 20 Approximate quadratures
 - 40 Rate of convergence, degree of approximation, best approximation
 - 41 Constructive theory of functions
 - 45 Approximation by smoothing integrals
 - 50 Asymptotic approximations
 - 55 Other methods of approximation
42. FOURIER ANALYSIS
- 05 Trigonometric polynomials
 - 06 Best approximation by trigonometric polynomials
 - 08 Trigonometric interpolation
 - 10 Fourier coefficients
 - 11 Convergence of Fourier series
 - 15 Orthogonal functions
 - 16 Expansions in orthogonal functions
 - 17 Completeness of sets of orthogonal functions
 - 18 Completeness, closure, spectral synthesis
 - 20 Summability of Fourier and generalized Fourier expansions
 - 25 Fourier transform
 - 26 Other Fourier-type transforms
 - 27 Trigonometric moment problems
 - 30 Almost periodic functions
 - 35 Positive definite functions
 - 40 Multiple Fourier series and integrals
 - 50 Abstract harmonic analysis
44. INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS
- 10 Laplace transform
 - 25 Convolution
- 28 General transforms
 - 30 Special transforms: Legendre, Hilbert, etc.
 - 32 Multiple transforms
 - 40 Operational calculus
 - 42 Operational calculus in several variables
 - 50 Fractional derivatives and integrals
 - 60 Moment problems
45. INTEGRAL EQUATIONS
- 10 Linear integral equations, general
 - 11 Fredholm equations
 - 12 Eigenvalue problems
 - 13 Volterra equations
 - 15 Singular equations
 - 20 Systems of linear equations
 - 30 Non-linear integral equations
 - 31 Singular non-linear equations
 - 40 Integro-differential equations
46. FUNCTIONAL ANALYSIS
- 10 Topological linear spaces (including normed spaces and Hilbert spaces)
 - 20 Partially ordered linear spaces
 - 30 Special function spaces
 - 40 Distributions
 - 50 Single linear operators in linear or partially ordered spaces
 - 60 Groups or semigroups of linear operators, representations of topological groups
 - 65 Rings of operators, group algebras, abstract topological algebras, and their representations
 - 70 Banach algebras of analytic functions
 - 80 Differential and integral operators
 - 90 Applications of functional analysis
49. CALCULUS OF VARIATIONS
50. GEOMETRY
- 05 Foundations
 - 10 Euclidean
 - 11 Triangles, tetrahedra
 - 12 Circles, spheres
 - 14 Constructions
 - 15 Descriptive geometry
 - 17 Analytic geometry
 - 20 Affine geometry, general
 - 25 Transformations
 - 30 Projective geometry, general
 - 35 Transformations
 - 38 Second-order loci
 - 40 Non-Euclidean geometry (i.e., hyperbolic or elliptic)
 - 46 Minkowski geometry
 - 48 Special geometries
 - 50 Classical algebraic geometry
 - 51 Foundations
 - 52 Transformations
 - 55 Curves
 - 56 Surfaces
 - 57 Abelian varieties, genera, integrals
 - 60 Finite geometries
 - 70 Projective planes
 - 80 Configurations
 - 90 Regular figures, divisions of space
 - 95 Paradoxical decompositions
52. CONVEX SETS AND GEOMETRIC INEQUALITIES
- 10 Convex polyhedra
 - 25 Convex curves
 - 30 Convex regions
 - 34 Helly-type theorems
 - 40 Extremum problems and geometric inequalities
 - 45 Packing and covering
 - 50 Distance geometries

SUBJECT CLASSIFICATION

53. DIFFERENTIAL GEOMETRY

- 01 Curves and surfaces in Euclidean spaces
- 04 Minimal surfaces
- 10 Affine differential geometry
- 20 Projective differential geometry
- 25 Conformal differential geometry
- 30 Non-Euclidean differential geometry
- 32 Other special differential geometries
- 35 Vector and tensor analysis
- 38 Spinor analysis
- 40 Differentiable manifolds (general theory), e.g., definitions, jets, tangent bundles
- 42 Differential invariants (local theory), geometric objects
- 45 Differential calculus (global theory); forms, currents, integration, tensor fields, etc.
- 50 Connections (general theory), including G -structures
- 55 Affine connections
- 60 Projective connections
- 65 Conformal connections
- 70 Local Riemannian geometry
- 72 Riemannian manifolds
- 75 Global surface theory (convex surfaces)
- 78 Lorentz metrics and generalizations
- 80 Kählerian connections and generalizations
- 85 Finaler spaces and generalizations (areal metrics)
- 90 Integral geometry
- 99 Other generalizations (G -spaces of Busemann, etc.)

54. GENERAL TOPOLOGY

- 10 Axiomatics; generalizations of topological spaces
- 20 General topological spaces
- 21 Convergence notions
- 22 Compactness and generalizations
- 23 Compactifications, other extensions
- 24 Proximity spaces
- 25 Uniform spaces
- 26 Metric spaces, metrizability
- 27 Dimension theory
- 28 Mappings
- 29 Many-valued mappings
- 30 Continua
- 35 Topological semigroups, lattices, etc.
- 40 Topology of E_2 , 2-manifolds
- 50 Topology of E_n , n -manifolds ($n > 2$)
- 60 Transformation groups
- 70 Topological dynamics
- 80 Fixed-point theorems, coincidence theorems, etc.

55. ALGEBRAIC TOPOLOGY

- 10 Graphs, map-coloring
- 20 Knots, links
- 30 Homology and cohomology theory
- 32 Sheaves
- 34 Cohomology (and homology) operations, Steenrod algebra
- 36 Periodic transformations, fixed points, coincidences (Smith theory)
- 38 Dimension theory
- 40 Homotopy theory, general
- 42 Algebra of mappings (including cohomotopy groups)
- 45 Computation of homotopy groups
- 50 Fiber spaces
- 52 Spectral sequences
- 60 Manifolds
- 62 Classification
- 64 Mappings
- 66 Generalized manifolds, local homology
- 68 Homotopy manifolds
- 70 Imbedding, immersion

57. TOPOLOGY AND GEOMETRY OF DIFFERENTIABLE MANIFOLDS

- 10 Differentiable structures, cobordism
- 20 Differentiable mappings, imbeddings, immersions, diffeomorphisms
- 30 Fiber bundles, tangent bundles
- 32 Characteristic classes
- 34 Topology of vector and tensor fields
- 36 Foliations
- 40 Topology of Lie groups
- 45 Topology of homogeneous spaces
- 50 Analysis on differentiable manifolds
- 60 Complex manifolds (also in several complex variables)
- 70 Infinite Lie groups, deformations

60. PROBABILITY

- 05 Foundations
- 10 Combinatorial probability theory
- 15 Geometric probability theory
- 20 Distributions
- 30 Limit theorems
- 40 Stochastic processes, general theory
- 45 Markov processes
- 48 Branching processes
- 50 Stationary processes
- 55 Random walks, Brownian motion
- 60 Queuing theory, telephone traffic, storage
- 62 Renewal theory
- 65 Other special processes
- 70 Random noise
- 90 Other applications

62. STATISTICS

- 05 Elementary descriptive statistics
- 10 Distributions of statistical functions
- 20 Estimation theory: parametric case
- 25 Testing of hypotheses: parametric case
- 30 Multivariate analysis, regression analysis
- 35 Order statistics
- 40 Non-parametric methods
- 50 Analysis of experiments
- 55 Design of experiments
- 60 Decision theory
- 65 Multistage decision procedures, sequential analysis
- 70 Statistical engineering, quality control
- 75 Life testing
- 80 Sampling surveys
- 85 Statistical analysis of stochastic processes, time series analysis
- 90 Applications

65. NUMERICAL METHODS

- 05 General mathematical methods, iteration
- 15 Monte Carlo methods
- 20 Interpolation, smoothing, least squares, curve fitting, approximation of functions
- 25 Computation of special functions, series, integrals
- 30 Mathematical programming
- 35 Linear equations, determinants, matrices
- 40 Eigenvalues, eigenvectors, Rayleigh-Ritz method
- 50 Solution of algebraic and transcendental equations and systems
- 55 Numerical differentiation and integration, mechanical quadrature
- 60 Ordinary differential equations
- 65 Partial differential equations
- 70 Difference and functional equations
- 75 Integral and integro-differential equations
- 80 Error analysis
- 85 Graphical methods, nomography
- 90 Harmonic analysis and synthesis
- 95 Tables

SUBJECT CLASSIFICATION

68. COMPUTING MACHINES
69. GENERAL APPLIED MATHEMATICS
70. MECHANICS OF PARTICLES AND SYSTEMS
 - 10 Foundations
 - 20 Statics
 - 30 Kinematics, mechanisms, linkages
 - 40 Dynamics
 - 50 Oscillations, stability
 - 55 Non-linear oscillation
 - 60 Exterior ballistics
 - 70 Variable mass, rockets
73. ELASTICITY, PLASTICITY
 - 05 Foundations of mechanics of deformable solids
 - 06 Elasticity: general theorems
 - 07 Finite deformation
 - 10 Plane stress and strain
 - 15 Three-dimensional problems
 - 25 Beams and rods
 - 30 Plates
 - 32 Shells and membranes
 - 35 Anisotropic bodies
 - 37 Dislocation theory
 - 45 Vibrations, structural dynamics
 - 47 Aeroelasticity
 - 50 Stability, buckling, failure
 - 55 Wave propagation, impact
 - 65 Visco-elasticity
 - 70 Plasticity, creep
 - 80 Soil mechanics
 - 90 Thermo-mechanics
76. FLUID MECHANICS, ACOUSTICS
 - 05 Foundations
 - 10 Incompressible fluids: general theory
 - 15 Incompressible fluids with special boundaries
 - 17 Airfoil theory
 - 20 Free surface flows, water waves, jets, wakes
 - 25 Viscous fluids
 - 30 Boundary layer theory
 - 35 Stability of flow
 - 37 Convection
 - 40 Turbulence
 - 45 Rarefied gas flow
 - 50 Compressible fluids: general theory
 - 55 Compressible fluids: subsonic flow
 - 60 Compressible fluids: transonic flow
 - 65 Compressible fluids: supersonic and hypersonic flow
 - 70 Shock waves
 - 75 Aero- and hydrodynamic sound
 - 80 Acoustics
 - 85 Non-Newtonian fluids
 - 90 Magneto- and aerodynamics, ionized gas flow (see also 78.30 ; 82.25 ; 85.50)
 - 92 Quantum hydrodynamics
 - 93 Relativistic hydrodynamics
 - 95 Diffusion, filtration
78. OPTICS, ELECTROMAGNETIC THEORY, CIRCUITS
 - 05 Geometric optics
 - 10 Physical optics
 - 20 Electron optics
 - 30 Space charge waves
 - 40 Electromagnetic theory
 - 45 Electro- and magnetostatics
 - 50 Waves and radiation
 - 60 Diffraction, scattering
 - 70 Antennas, wave-guides
 - 80 Circuits, networks (for switching theory, see 94.70)
 - 90 Technical applications
80. CLASSICAL THERMODYNAMICS, HEAT TRANSFER
 - 10 Classical thermodynamics
 - 20 Heat and mass transfer
 - 30 Combustion, interior ballistics
 - 40 Chemical kinetics
81. QUANTUM MECHANICS
 - 10 General theory
 - 15 Scattering theory
 - 20 Mathematical field theory
 - 22 Dispersion relations
 - 24 Weak interactions
 - 26 Elementary particles
 - 28 Nuclear physics
 - 30 Atomic physics
 - 38 Molecular physics
 - 50 Quantum mechanics of many-body systems
 - 60 Superconductivity and superfluidity
 - 70 Quantum statistical mechanics
82. STATISTICAL PHYSICS, STRUCTURE OF MATTER
 - 05 General statistical mechanics
 - 10 Quantum statistical mechanics
 - 15 Statistical thermodynamics
 - 17 Irreversible thermodynamics
 - 20 Kinetic theory of gases
 - 25 Plasma (see also 76.90)
 - 30 Liquids
 - 40 Solids
 - 45 Crystals
 - 50 Metals
 - 60 Transport processes
 - 65 Nuclear reactor theory
83. RELATIVITY
 - 10 Special relativity
 - 20 General relativity
 - 30 Unified field theories
 - 40 Other relativistic theories
85. ASTRONOMY
 - 10 Celestial mechanics
 - 15 Galactic and stellar dynamics
 - 20 3- and n-body problems
 - 27 Astronautics
 - 30 Stellar structure
 - 40 Stellar atmospheres, radiative transfer
 - 50 Hydrodynamic and hydromagnetic problems
 - 60 Statistical astronomy
 - 70 Cosmology
 - 80 Special problems
 - 90 Radio astronomy
86. GEOPHYSICS
 - 10 Hydrology, hydrography, oceanography
 - 20 Meteorology
 - 30 Seismology
 - 40 Potentials, prospecting
 - 50 Geo-electricity and magnetism
 - 60 Geodesy, mapping problems
 - 70 Atmospheric physics
90. ECONOMICS, OPERATIONS RESEARCH, GAMES
 - 05 Decisions, utility
 - 10 Economic models
 - 15 Economic time-series analysis
 - 17 Miscellaneous applications to economics
 - 30 Management science, operations research
 - 35 Highway traffic

SUBJECT CLASSIFICATION

- 40 Actuarial theory
- 50 Linear programming
- 52 Transportation problems
- 54 Flows in networks
- 56 Integer programming
- 58 Non-linear programming
- 60 Logistics, inventory, storage
- 70 Games
- 80 n-person games

92. BIOLOGY AND BEHAVIORAL SCIENCES

- 10 Biology
- 20 Genetics
- 30 Population dynamics, epidemiology
- 40 Sociology

- 50 Psychology
- 55 Nervous networks

94. INFORMATION, COMMUNICATION, CONTROL

- 05 Foundations, coding theorem
- 10 Statistical theory of communication channels, filters
- 13 Detection
- 15 Codes, decoding
- 20 Data processing
- 30 Linguistics, machine translation
- 55 Control systems
- 57 Stability of control systems
- 60 Optimal control
- 65 Random control
- 70 Switching theory, relays
- 80 Servomechanisms
- 90 Automata

ABBREVIATIONS OF NAMES OF JOURNALS

This list gives the form of references used in MATHEMATICAL REVIEWS and the complete title; the place of publication and other pertinent information are given in parentheses when desirable for clarity.

- Abh. Akad. Wiss. Göttingen Math.-Phys. Kl.* Abhandlungen der Akademie der Wissenschaften in Göttingen. Mathematisch-Physikalische Klasse. (Göttingen)
- Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin. Klasse für Mathematik, Physik und Technik. (Berlin)
- Abh. Dokumentationszentrums Technik Wirtschaft.* Abhandlungen des Dokumentationszentrums der Technik und Wirtschaft. (Vienna)
- Abh. Math. Sem. Univ. Hamburg.* Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg. (Hamburg)
- Abh. Sächs. Akad. Wiss. Leipzig Math.-Nat. Kl.* Abhandlungen der Sächsischen Akademie der Wissenschaften zu Leipzig. Mathematisch-Naturwissenschaftliche Klasse. (Leipzig) (Formerly: *Abh. Sächs. Akad. Wiss. Math.-Nat. Kl.*)
- Abh. Sächs. Akad. Wiss. Math.-Nat. Kl.* Abhandlungen der Sächsischen Akademie der Wissenschaften zu Leipzig. Mathematisch-Naturwissenschaftliche Klasse. (Leipzig) (Continued as: *Abh. Sächs. Akad. Wiss. Leipzig Math.-Nat. Kl.*)
- Acad. R. P. Romîne An. Romîno-Soviet. Ser. Mat.-Fiz.* Academia Republicii Populare Romîne. Institutul de Studii Romîno-Sovietice. *Analele Romîno-Sovietice. Seria Matematică-Fizică.* Rumyno-Sovetskije Zapiski. Fiziko-Matematičeskaja Serija. (Bucharest)
- Acad. R. P. Romîne Baza Cerc. Ști. Timișoara Stud. Cerc. Ști. Tehn.* Academia Republicii Populare Romîne. Baza de Cercetări Științifice Timișoara. Studii și Cercetări Științe Tehnice. (Timișoara)
- Acad. R. P. Romîne Fil. Cluj Stud. Cerc. Mat.* Academia Republicii Populare Romîne. Institutul de Calcul. Filiala Cluj. Studii și Cercetări de Matematică. (Cluj) (Formerly: *Acad. R. P. Romîne Fil. Cluj Stud. Cerc. Mat. Fiz.*)
- Acad. R. P. Romîne Fil. Cluj Stud. Cerc. Mat. Fiz.* Academia Republicii Populare Romîne. Filiala Cluj. Studii și Cercetări de Matematică și Fizică. (Cluj) (Continued as: *Acad. R. P. Romîne Fil. Cluj Stud. Cerc. Mat.*)
- Acad. R. P. Romîne Fil. Iași Stud. Cerc. Ști. Fiz. Ști. Tehn.* Academia Republicii Populare Romîne. Filiala Iași. Studii și Cercetări Științifice. Fizică și Științe Tehnice. (Iași)
- Acad. R. P. Romîne Fil. Iași Stud. Cerc. Ști. Mat.* Academia Republicii Populare Romîne. Filiala Iași. Studii și Cercetări Științifice. Matematică. (Iași)
- Acad. R. P. Romîne Stud. Cerc. Mat.* Academia Republicii Populare Romîne. Institutul de Matematică. Studii și Cercetări Matematice. *Matematičeskie Trudy i Issledovanija. Études et Recherches Mathématiques.* (Bucharest)
- Acad. R. P. Romîne Stud. Cerc. Mec. Apl.* Academia Republicii Populare Romîne. Institutul de Mecanică Aplicată "Traian Vuia". Studii și Cercetări de Mecanică Apilcată. (Bucharest)
- Acad. Roy. Belg. Bull. Cl. Sci.* Académie Royale de Belgique. Bulletin de la Classe des Sciences. Koninklijke Belgische Academie. Mededelingen van de Klasse der Wetenschappen. (Brussels)
- Acad. Roy. Belg. Cl. Sci. Mém. Coll. in-8°.* Académie Royale de Belgique. Classe des Sciences. Mémoires. Collection in-8°. Koninklijke Belgische Academie. Klasse der Wetenschappen. Verhandelingen. Verzameling in-8°. (Brussels)
- Acad. Serbe Sci. Arts Glas Cl. Sci. Math. Nat.* Académie Serbe des Sciences et des Arts. Glas. Classe des Sciences Mathématiques et Naturelles. Nouvelle Série. (Belgrade) (Formerly: *Glas Srpske Akad. Nauka Od. Prirod.-Mat. Nauka*)
- Acad. Serbe Sci. Publ. Inst. Math.* Académie Serbe des Sciences. Publications de l'Institut Mathématique. (Belgrade) (Continued as: *Publ. Inst. Math. (Beograd)*)
- Accad. Naz. Sci. Lett. Arti Modena Atti Mem.* Accademia Nazionale di Scienze Lettere e Arti. Modena. Atti e Memorie. (Modena) (Formerly: *Accad. Sci. Modena Atti Mem.*)
- Accad. Sci. Modena Atti Mem.* Accademia di Scienze, Lettere e Arti di Modena. Atti e Memorie. (Modena) (Continued as: *Accad. Naz. Sci. Lett. Arti Modena Atti Mem.*)
- Acta Acad. Abo. Math. Phys.* Acta Academiae Aboensis. Mathematica et Physica. (Abo=Turku)
- Acta Arith. Polska Akademia Nauk. Instytut Matematyczny.* Acta Arithmetica. (Warsaw)
- Acta Astronom. Sinica.* Acta Astronomica Sinica. (Peking)
- Acta Biotheor.* Acta Biotheoretica. (Leiden)
- Acta Cryst.* Acta Crystallographica. (Copenhagen)
- Acta Fac. Nat. Univ. Comenian.* Acta Facultatis Rerum Naturalium Universitatis Comenianae. (Bratislava)
- Acta Math.* Acta Mathematica. (Uppsala)
- Acta Math. Acad. Sci. Hungar.* Acta Mathematica Academiae Scientiarum Hungaricae. (Budapest)
- Acta Math. Sinica.* Acta Mathematica Sinica. (Peking) (Translated as: *Chinese Math.*)
- Acta Mech. Sinica.* Acta Mechanica Sinica. (Peking)
- Acta Phys. Acad. Sci. Hungar.* Acta Physica Academiae Scientiarum Hungaricae. (Budapest)
- Acta Phys. Austriaca.* Acta Physica Austriaca. (Vienna)
- Acta Phys. Polon.* Polska Akademia Nauk. Instytut Fizyki. Acta Physica Polonica. (Warsaw)
- Acta Polytech. Scandinav.* Acta Polytechnica Scandinavica. (Stockholm)
- Acta Sci. Math. (Szeged).* Acta Universitatis Szegediensis. Acta Scientiarum Mathematicarum. (Szeged)
- Acta Tech. Acad. Sci. Hungar.* Acta Technica Academiae Scientiarum Hungaricae. (Budapest)
- Acta Univ. Debrecen.* Acta Universitatis Debreceniensis de Ludovico Kossuth Nominatae. (Debrecen)
- Acta Univ. Lund. N.S. (Lund)* See *Lunds Univ. Årsskr. Avd. 2.*
- Actes Soc. Helv. Sci. Nat.* Actes de la Société Helvétique des Sciences Naturelles. Verhandlungen der Schweizerischen Naturforschenden Gesellschaft. Atti della Società Elvetica di Scienze Naturali. (Basel)
- Actualités Sci. Indust.* Actualités Scientifiques et Industrielles. (Paris)
- Acustica.* Acustica. (Zürich)
- Advances in Math.* Advances in Mathematics. (New York)
- Advances in Phys.* Advances in Physics. A Quarterly Supplement of the Philosophical Magazine. (London)
- Aero. Quart.* The Aeronautical Quarterly. (London)
- AIAA J.* AIAA Journal. (Easton, Pa.) (Formerly: *ARS J.* and *J. Aerospace Sci.*)
- Akad. Nauk Armjan. SSR Dokl.* Akademija Nauk Armjanakol SSR. Doklady. (Erevan)

ABBREVIATIONS OF NAMES OF JOURNALS

- Akad. Nauk Azerbaidžan. SSR Dokl. Akademija Nauk Azerbaidžanskoi SSR. Doklady. (Baku)*
- Akad. Nauk Azerbaidžan. SSR Trudy Inst. Fiz. Mat. Akademija Nauk Azerbaidžanskoi SSR. Trudy Instituta Fiziki i Matematiki. (Baku)*
- Akad. Nauk Azerbaidžan. SSR Trudy Inst. Mat. Meh. Akademija Nauk Azerbaidžanskoi SSR. Trudy Instituta Matematiki i Mehani. (Baku)*
- Akad. Nauk BSSR Trudy Inst. Fiz. Mat. Akademija Nauk Beloruskoj SSR. Institut Fiziki i Matematiki. Trudy Instituta Fiziki i Matematiki. (Minsk)*
- Akad. Nauk Gruzin. SSR Trudy Tbilissk. Mat. Inst. Razmadze. Akademija Nauk Gruzinskoi SSR. Trudy Tbilisskogo Matematičeskogo Instituta im. A. M. Razmadze. (Tiflis)*
- Akad. Nauk Kazah. SSR Trudy Astrofiz. Inst. Akademija Nauk Kazahskoi SSR. Trudy Astrofizičeskogo Instituta. (Alma-Ata)*
- Akad. Nauk Kazah. SSR Trudy Sekt. Mat. Meh. Akademija Nauk Kazahskoi SSR. Trudy Sektora Matematiki i Mehani. (Alma-Ata)*
- Akad. Nauk Latv. SSR Trudy Inst. Fiz. Akademija Nauk Latvīskoi SSR. Trudy Instituta Fiziki. (Riga)*
- Akad. Nauk SSSR Izv. Sibirk. Otd. Akademija Nauk SSSR. Izvestija Sibirskogo Otdelenija Akademii Nauk SSSR. (Novosibirsk)*
- Akad. Nauk Ukrain. RSR Prikl. Meh. (Kiev) See Prikladna Meh.*
- Akad. Nauk Uzbek. SSR Trudy Inst. Mat. Akademija Nauk Uzbekskoi SSR. Trudy Instituta Matematiki im. V. I. Romanovskogo. (Tashkent) (Formerly: *Akad. Nauk Uzbek. SSR Trudy Inst. Mat. Meh.*)*
- Akad. Nauk Uzbek. SSR Trudy Inst. Mat. Meh. Akademija Nauk Uzbekskoi SSR. Trudy Instituta Matematiki i Mehani. im. V. I. Romanovskogo. (Tashkent) (Continued as: *Akad. Nauk Uzbek. SSR Trudy Inst. Mat.*)*
- Akad. Wiss. Lit. Mainz Abh. Math.-Nat. Kl. Akademie der Wissenschaften und der Literatur in Mainz. Abhandlungen der Mathematisch-Naturwissenschaftlichen Klasse. (Wiesbaden)*
- Akust. Beihefte. Akustische Beihefte. (Stuttgart)*
- Akust. Ž. Akademija Nauk SSSR. Akustičeskii Žurnal. (Moscow) (Translated as: *Soviet Physics Acoust.*)*
- Algebra i Logika Sem. Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Algebra i Logika. Seminar. (Novosibirsk)*
- Algorytmy. Algorytmy. Prace. Instytutu Maszyn Matematycznych. Polskiej Akademii Nauk. (Warsaw)*
- Allgemein. Statist. Arch. Allgemeines statistisches Archiv. Organ der Deutschen Statistischen Gesellschaft. (Munich)*
- Amer. J. Math. American Journal of Mathematics. (Baltimore, Md.)*
- Amer. J. Phys. American Journal of Physics. (New York)*
- Amer. J. Sci. American Journal of Science. (New Haven, Conn.)*
- Amer. Math. Monthly. The American Mathematical Monthly. (Buffalo, N.Y.)*
- Amer. Math. Soc. Transl. American Mathematical Society Translations. (Providence, R.I.)*
- AMR. Applied Mechanics Reviews. (New York)*
- An. Acad. Brasil. Ci. Anais da Academia Brasileira de Ciências. (Rio de Janeiro)*
- An. Soc. Ci. Argentina. Anales de la Sociedad Científica Argentina. (Buenos Aires)*
- An. Ști. Univ. "Al. I. Cuza" Iași Sec. I. Analele Științifice ale Universității "Al. I. Cuza" din Iași. (Seria Nouă). Secțiunea I. (Matematică, Fizică, Chimie). (Iași)*
- An. Ști. Univ. "Al. I. Cuza" Iași Sec. II. Analele Științifice ale Universității "Al. I. Cuza" din Iași. (Seria Nouă). Secțiunea II. (Științe Naturale-Geografie). (Iași)*
- An. Univ. București Ser. Acta Logica. Analele Universității București. Seria Acta Logica. (Bucharest) (Formerly: *An. Univ. "C. I. Parhon" București Ser. Acta Logica*)*
- An. Univ. "C. I. Parhon" București Ser. Acta Logica. Analele Universității "C. I. Parhon" București. Seria Acta Logica. (Bucharest) (Continued as: *An. Univ. București Ser. Acta Logica*)*
- An. Univ. "C. I. Parhon" București Ser. Ști. Nat. Analele Universității "C. I. Parhon" București. Seria Științelor Naturii. (Bucharest) (Continued as: *An. Univ. C. I. Parhon Ser. Ști. Nat. Mat.-Fiz.*)*
- An. Univ. C. I. Parhon Ser. Ști. Nat. Mat.-Fiz. Analele Universității C. I. Parhon. Seria Științele Naturii. Matematică-Fizică. (Bucharest) (Formerly: *An. Univ. "C. I. Parhon" București Ser. Ști. Nat.*)*
- Ann. Acad. Roy. Belg. Annuaire de l'Académie Royale de Belgique. Jaarboek van de Koninklijke Belgische Academie. (Brussels) See *Annuaire Acad. Roy. Belg.**
- Ann. Acad. Sci. Fenn. Ser. A I. Suomalaisen Tiedatkatemian Toimituksia. Sarja A. Annales Academiæ Scientiarum Fennicæ. Series A. I. Mathematica. (Helsinki)*
- Ann. Acad. Sci. Fenn. Ser. A VI. Suomalaisen Tiedatkatemian Toimituksia. Sarja A. Annales Academiæ Scientiarum Fennicæ. Series A. VI. Physica. (Helsinki)*
- Ann. Assoc. Internat. Calcul Anal. Annales de l'Association Internationale pour le Calcul Analogique. Proceedings of the International Association for Analog Computation. (Brussels)*
- Ann. Astrophys. Annales d'Astrophysique. (Paris)*
- Ann. Fac. Sci. Univ. Toulouse. Annales de la Faculté des Sciences de l'Université de Toulouse pour les Sciences Mathématiques et les Sciences Physiques. (Toulouse)*
- Ann. Geofis. Annali di Geofisica. Rivista dell'Istituto Nazionale di Geofisica. (Rome)*
- Ann. Human Genetics. Annals of Human Genetics. (London)*
- Ann. Inst. Fourier (Grenoble). Université de Grenoble. Annales de l'Institut Fourier. (Grenoble)*
- Ann. Inst. H. Poincaré. Annales de l'Institut Henri Poincaré. (Paris)*
- Ann. Inst. Statist. Math. Annals of the Institute of Statistical Mathematics. (Tokyo)*
- Ann. Japan Assoc. Philos. Sci. Annals of the Japan Association for Philosophy of Science. (Tokyo)*
- Ann. Mat. Pura Appl. Annali di Matematica Pura ed Applicata. (Bologna)*
- Ann. Math. Statist. The Annals of Mathematical Statistics. (Baltimore, Md.)*
- Ann. New York Acad. Sci. Annals of the New York Academy of Sciences. (New York)*
- Ann. of Math. Annals of Mathematics. (Princeton, N.J.)*
- Ann. of Sci. Annals of Science. (London)*
- Ann. Physics. Annals of Physics. (New York)*
- Ann. Physik. Annalen der Physik. (Leipzig)*
- Ann. Physique. Annales de Physique. (Paris)*
- Ann. Polon. Math. Polska Akademia Nauk. Annales Polonici Mathematici. (Warsaw)*
- Ann. Ponts Chaussées. Annales de Ponts et Chaussées. (Paris)*
- Ann. Radiodéc. Annales de Radiodélectricité. (Paris)*
- Ann. Sci. École Norm. Sup. Annales Scientifiques de l'École Normale Supérieure. (Paris)*
- Ann. Scuola Norm. Sup. Pisa. Annali della Scuola Normale Superiore di Pisa. Scienze Fisiche e Matematiche. (Pisa)*
- Ann. Soc. Sci. Bruxelles Sér. I. Annales de la Société Scientifique de Bruxelles. Série I. Sciences Mathématiques, Astronomiques et Physiques. (Brussels)*

ABBREVIATIONS OF NAMES OF JOURNALS

Ann. Télécommun. Annales des Télécommunications. (Paris)
Ann. Univ. Lyon Sect. A. Annales de l'Université de Lyon. Section A. Sciences Mathématiques et Astronomie. (Lyon)
Ann. Univ. Lyon Sect. B. Annales de l'Université de Lyon. Section B. Sciences Physiques et Chimiques. (Lyon)
Ann. Univ. Mariae Curie-Skłodowska Sect. A. Annales Universitatis Mariae Curie-Skłodowska. Section A. Mathematics. (Lublin)
Ann. Univ. Mariae Curie-Skłodowska Sect. AA. Annales Universitatis Mariae Curie-Skłodowska. Section AA. Physics and Chemistry. (Lublin)
Ann. Univ. Sarav. Annales Universitatis Saraviensis. (Saarbrücken)
Ann. Univ. Sci. Budapest. Eötvös Sect. Math. Annales Universitatis Scientiarum Budapestinensis de Rolando Eötvös Nominatae. Sectio Mathematica. (Budapest)
Ann. Univ. Turku. Ser. A I. Annales Universitatis Turkuensis. Series A. I. (Turku)
Annuaire Acad. Roy. Belg. Annuaire de l'Académie Royale de Belgique. Jaarboek van de Koninklijke Belgische Akademie. (Brussels) (Formerly listed as: *Ann. Acad. Roy. Belg.*)
Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre 1 Math. Godišnik na Sofijskija Universitet Fiziko-Matematičeski Fakultet. Kniga 1—Matematika. Annuaire de l'Université de Sofia. Faculté des Sciences Physiques et Mathématiques. Livre 1—Mathématiques. (Sofia)
Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre 2 Phys. Godišnik na Sofijskija Universitet Fiziko-Matematičeski Fakultet. Kniga 2—Fizika. Annuaire de l'Université de Sofia. Faculté des Sciences Physiques et Mathématiques. Livre 2—Physique. (Sofia)
Anuário Obs. São Paulo. Universidade de São Paulo. Instituto Astronômico e Geofísico. Anuário do Observatório de S. Paulo. (São Paulo)
Appl. Mat. Českoslovenaká Akademie Véd. Aplikace Matematiky. (Prague)
Appl. Mech. Rev. Applied Mechanics Reviews. (New York) (Sometimes abbreviated as *AMR* in the text of *Math. Reviews*)
Appl. Statist. Applied Statistics. A Journal of the Royal Statistical Society. (London)
Arbok Univ. Bergen Mat.-Nat. Ser. Arbok for Universitetet i Bergen. Mat.-Naturv. Serie. (Bergen) (Formerly: *Univ. Bergen Arbok. Naturvit. Rekke.*)
Arch. Elektrotech. Archiv für Elektrotechnik. (Berlin-Göttingen-Heidelberg)
Arch. History Exact Sci. Archive for History of Exact Sciences. (Berlin)
Arch. Math. Archiv der Mathematik. Archives of Mathematics. Archives Mathématiques. (Basel-Stuttgart)
Arch. Math. Logik Grundlagenforsch. Archiv für mathematische Logik und Grundlagenforschung. (Stuttgart)
Arch. Mech. Stos. Polska Akademia Nauk. Instytut Podstawowych Problemów Techniki. Archiwum Mechaniki Stosowanej. (Warsaw)
Arch. Rational Mech. Anal. Archive for Rational Mechanics and Analysis. (Berlin)
Arch. Sci. Soc. Phys. Histoire Nat. Genève. Archives des Sciences. Société de Physique et d'Histoire Naturelle de Genève. (Geneva)
Archimede. Archimede. Rivista per gli Insegnanti e i Cultori di Matematiche Pure e Applicate. (Florence)
Ark. Astronom. Arkiv för Astronomi. (Stockholm)
Ark. Fys. Arkiv för Fysik. (Stockholm)
Ark. Mat. Arkiv för Matematik. (Stockholm)
Arkhimedes. Arkhimedes. Suomen Fysiikkoseura—Finlands Fysikerförening r.y. Suomen Matemaattinen Yhdistys—Finlands Matematiska Förening r.y. (Helsinki)

ARS J. ARS Journal. A Publication of the American Rocket Society. (Easton, Pa.) (Continued as: *AIAA J.*)
Assoc. Roy. Actuar. Belges Bull. Association Royale des Actuaire Belges. Bulletin. (Brussels)
Astronaut. Acta. Astronautica Acta. (Vienna)
Astronom. J. The Astronomical Journal. (New Haven, Conn.)
Astronom. Jber. Astronomischer Jahresbericht. (Berlin)
Astronom. Nachr. Astronomische Nachrichten. (Berlin)
Astronom. Zh. Akademija Nauk Sojuz SSR. Astronomičeskij Žurnal. (Moscow) (Translated as: *Soviet Astronom. AJ*)
Astrophys. J. The Astrophysical Journal. (Chicago, Ill.)
Astrophys. Norvegica. Det Norske Videnskaps-Akademi i Oslo. Astrophysical Norvegica. (Oslo)
Atatürk Univ. Yayınları Ser.-Mat. Atatürk Üniversitesi Yayınları. Araştırmalar Serisi—Matematik. Publications of Atatürk University. Research Series—Mathematics. (Erzurum)
Atti Accad. Gioenia Catania. Atti della Accademia Gioenia di Scienze Naturali in Catania. (Catania)
Atti Accad. Ligure. Atti della Accademia Ligure di Scienze e Lettere. (Genoa)
Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Nat. Sez. I. Atti della Accademia Nazionale dei Lincei. Memorie. Classe di Scienze Fisiche, Matematiche e Naturali. Sezione I^a. (Matematica, Meccanica, Astronomia, Geodesia e Geofisica). (Rome)
Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Nat. Sez. II. Atti della Accademia Nazionale dei Lincei. Memorie. Classe di Scienze Fisiche, Matematiche e Naturali. Sezione II^a. (Fisica, Chimica, Geologia, Paleontologia e Mineralogia). (Rome)
Atti Accad. Naz. Lincei Rend. Adunanze Gen. Atti della Accademia Nazionale dei Lincei. Rendiconti delle Adunanze Generali a Classi Riunite. (Rome) (Continued as: *Atti Accad. Naz. Lincei Rend. Adunanze Solenni*)
Atti Accad. Naz. Lincei Rend. Adunanze Solenni. Atti della Accademia Nazionale dei Lincei. Rendiconti delle Adunanze Solenni. (Rome) (Formerly: *Atti Accad. Naz. Lincei Rend. Adunanze Gen.*)
Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Nat. Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. (Rome)
Atti Accad. Sci. Fis. Mat. Napoli. Atti dell'Accademia delle Scienze Fisiche e Matematiche di Napoli. (Naples)
Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Mem. Atti della Accademia delle Scienze dell'Istituto di Bologna. Classe di Scienze Fisiche. Memorie. (Bologna)
Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Rend. Atti della Accademia delle Scienze dell'Istituto di Bologna. Classe di Scienze Fisiche. Rendiconti. (Bologna)
Atti Accad. Sci. Lett. Arti Palermo Parte I. Atti della Accademia di Scienze Lettere e Arti di Palermo. Parte Prima: Scienze. (Palermo)
Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Nat. Atti della Accademia delle Scienze di Torino. Classe di Scienze Fisiche, Matematiche e Naturali. (Turin)
Atti Sem. Mat. Fis. Univ. Modena. Atti del Seminario Matematico e Fisico dell'Università di Modena. (Modena)
Austral. J. Appl. Sci. Australian Journal of Applied Science. (Melbourne)
Austral. J. Phys. Australian Journal of Physics. (Melbourne)
Austral. J. Sci. The Australian Journal of Science. (Sydney)
Austral. J. Statist. The Australian Journal of Statistics. (Sydney)

ABBREVIATIONS OF NAMES OF JOURNALS

- Automat. Remote Control.* Automation and Remote Control. (A translation of *Automatika i Telemekhanika*, a publication of the Academy of Sciences of the USSR). (Pittsburgh, Pa.) (Translation of *Automat. i Telemekh.*)
- Avh. Norske Vid.-Akad. Oslo I.* Avhandlingar Utgitt av det Norske Videnskaps-Akademi i Oslo. I. Mat.-Naturv. Klasse. (Oslo)
- Automat. i Telemekh.* Akademija Nauk Sojuz SSR. Avtomatika i Telemekhanika. (Moscow) (Translated as: *Automat. Remote Control*)
- Azerbaidžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Him. Nauk.* Azerbaidžanskij Gosudarstvennyj Universitet im. S. M. Kirova. Učenyje Zapiski. Serija Fiziko-Matematičeskij i Himičeskij Nauk. (Baku)
- Bayer. Akad. Wiss. Math.-Nat. Kl. Abh.* Bayerische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Abhandlungen. (Munich)
- Bayer. Akad. Wiss. Math.-Nat. Kl. S.-B.* Bayerische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. (Munich)
- Behavioral Sci.* Behavioral Science. (Baltimore, Md.-Ann Arbor, Mich.)
- Bell System Tech. J.* The Bell System Technical Journal. (New York)
- Biochim. Biophys. Acta.* Biochimica et Biophysica Acta. (Amsterdam)
- Biometrics.* Biometrika. Journal of the Biometric Society. (Blackburg, Va.)
- Biometrika.* Biometrika. (London)
- Bol. Fac. Ingen. Agrimens. Montevideo.* Boletín de la Facultad de Ingeniería y Agrimensura de Montevideo. (Montevideo)
- Bol. Soc. Mat. Mexicana.* Boletín de la Sociedad Matemática Mexicana. (Mexico, D.F.)
- Bol. Soc. Mat. São Paulo.* Boletim da Sociedade de Matemática de São Paulo. (São Paulo)
- Bol. Univ. Paraná Fis. Teórica.* Boletim da Universidade do Paraná. Conselho de Pesquisas. Instituto de Física. Física Teórica. (Curitiba)
- Boll. Un. Mat. Ital.* Bollettino della Unione Matematica Italiana. (Bologna)
- Bonn. Math. Schr.* Bonner Mathematische Schriften. (Bonn)
- British J. Philos. Sci.* The British Journal for the Philosophy of Science. (Edinburgh)
- Bul. Inst. Politehn. București.* Buletinul Institutului Politehnic București. (Bucharest)
- Bul. Inst. Politehn. Iași.* Buletinul Institutului Politehnic din Iași. Serie Nouă. (Iași)
- Bul. Ști. Inst. Politehn. Cluj.* Buletinul Științific al Institutului Politehnic din Cluj. (Cluj) (Formerly: *Inst. Politehn. Cluj Lucrări Ști.*)
- Bulgar. Akad. Nauk. Izv. Mat. Inst.* Bŭlgarska Akademija na Naukite. Otdelenie za Fiziko-Matematičeski i Tehničeski Nauki. Izvestija na Matematičeskija Institut. (Sofia)
- Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* Bulletin de l'Académie Polonaise des Sciences. Série des Sciences Mathématiques, Astronomiques et Physiques. (Warsaw)
- Bull. Acad. Serbe Sci. Cl. Sci. Math. Nat. Sci. Math.* Bulletin de l'Académie Serbe des Sciences. Classe des Sciences Mathématiques et Naturelles Sciences. Mathématiques. (Belgrade)
- Bull. Amer. Math. Soc.* Bulletin of the American Mathematical Society. (Providence, R.I.)
- Bull. Astronom.* Bulletin Astronomique. (Paris)
- Bull. Astronom. Inst. Netherlands.* Bulletin of the Astronomical Institutes of the Netherlands. (Haarlem)
- Bull. Calcutta Math. Soc.* Bulletin of the Calcutta Mathematical Society. (Calcutta)
- Bull. Coll. Sci. (Baghdad).* Bulletin of the College of Science. University of Baghdad. (Baghdad)
- Bull. Earthquake Res. Inst. Tokyo.* Bulletin of the Earthquake Research Institute, University of Tokyo. (Tokyo)
- Bull. Fukuoka Gakugei Univ. III.* Bulletin of Fukuoka Gakugei University. III. Natural Sciences. (Fukuoka)
- Bull. Géodésique.* Bulletin Géodésique. (Paris)
- Bull. Inst. Internat. Statist.* Bulletin de l'Institut International de Statistique. (The Hague)
- Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.* Bulletin (Izvestiya) Academy of Sciences, USSR. Geophysics Series. (Washington, D.C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Geofiz.*)
- Bull. JSME.* Bulletin of JSME. (Japan Society of Mechanical Engineers). (Tokyo)
- Bull. Kyoto Gakugei Univ. Ser. B.* Bulletin of the Kyoto Gakugei University. Ser. B. Mathematics and Natural Science. (Kyoto)
- Bull. Kyushu Inst. Tech. Math. Nat. Sci.* Bulletin of the Kyushu Institute of Technology. Mathematics, Natural Science. (Tobata)
- Bull. Math. Biophys.* The Bulletin of Mathematical Biophysics. (Chicago, Ill.)
- Bull. Math. Soc. Nanyang Univ. Singapore.* Majallah Tahunan 'Ilmu Pasti. Bulletin of the Mathematical Society, Nanyang University, Singapore. (Singapore)
- Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine.* Bulletin Mathématique de la Société des Sciences Mathématiques et Physiques de la République Populaire Roumaine. (Bucharest)
- Bull. Math. Statist.* Bulletin of Mathematical Statistics. (Fukuoka)
- Bull. Res. Council Israel Sect. F.* Bulletin of the Research Council of Israel. Section F. Mathematics and Physics. (Jerusalem)
- Bull. Sci. Conseil Acad. RPF Yougoslav.* Bulletin Scientifique. Conseil des Académies de la RPF de Yougoslavie. (Zagreb)
- Bull. Sci. Math.* Bulletin des Sciences Mathématiques. (Paris)
- Bull. Signal. 1 Math. Pures Appl.* Ministère de l'Éducation Nationale. Centre National de la Recherche Scientifique. Bulletin Signalétique. 1. Mathématiques Pures et Appliquées. (Paris)
- Bull. Soc. Amis Sci. Lettres Poznań Sér. B.* Bulletin de la Société des Amis des Sciences et des Lettres de Poznań. Série B: Sciences Mathématiques et Naturelles. (Poznań)
- Bull. Soc. Math. Belg.* Bulletin de la Société Mathématique de Belgique. (Brussels)
- Bull. Soc. Math. France.* Bulletin de la Société Mathématique de France. (Paris)
- Bull. Soc. Math. Grèce.* Bulletin de la Société Mathématique de Grèce. (Athens)
- Bull. Soc. Math. Phys. Macédoine.* Bulletin de la Société des Mathématiciens et des Physiciens de la République Populaire de Macédoine. Bilten na Društvo na Matematičarite i Fizičarite od Narodna Republika Makedonija. (Skopje)
- Bull. Soc. Math. Phys. Serbie.* Bulletin de la Société des Mathématiciens et Physiciens de la R. P. de Serbie. Vestnik Društva Matematičara i Fizičara Narodne Republike Srbije. (Belgrade)
- Bull. Soc. Roy. Sci. Liège.* Bulletin de la Société Royale des Sciences de Liège. (Liège)
- Bull. Soc. Sci. Lettres Lódź.* Bulletin de la Société des Sciences et des Lettres de Lódź. (Lódź)
- Bull. Tech. Univ. Istanbul.* (Istanbul) See *Istanbul Tek. Univ. Bul.*
- Bull. Tokyo Gakugei Univ.* Bulletin of Tokyo Gakugei University. (Tokyo)
- Bull. Trimest. Inst. Actuaire Franc.* Bulletin Trimestriel de l'Institut des Actuaire Français. (Paris)
- Bull. Univ. Osaka Prefecture Ser. A.* Bulletin of University of Osaka Prefecture. Series A. Engineering and Natural Sciences. (Osaka)

ABBREVIATIONS OF NAMES OF JOURNALS

- Bull. Utsunomiya Univ.* Bulletin of Utsunomiya University. (Utsunomiya)
- C. R. Acad. Bulgare Sci.* Doklady Bolgarskoj Akademii Nauk. Comptes Rendus de l'Académie Bulgare des Sciences. (Sofia)
- C. R. Acad. Sci. Paris.* Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. (Paris)
- Cahiers Centre Études Rech. Opér.* Cahiers du Centre d'Études de Recherche Opérationnelle. (Brussels)
- Cahiers Centre Math. Statist. Appl. Sci. Social.* Cahiers du Centre de Mathématique et de Statistique Appliquées aux Sciences Sociales de l'Institut de Sociologie Solvay. (Brussels)
- Cahiers de Phys.* Cahiers de Physique. (Paris)
- Cahiers Rhodan.* Cahiers Rhodaniens. (Lyon)
- Calc. Automat. y Cibernet.* Calculo Automatico y Cibernetica. (Madrid)
- Calcutta Statist. Assoc. Bull.* Calcutta Statistical Association Bulletin. (Calcutta)
- Canad. J. Math.* Canadian Journal of Mathematics. Journal Canadien de Mathématiques. (Toronto)
- Canad. J. Phys.* Canadian Journal of Physics. (Ottawa)
- Canad. Math. Bull.* Canadian Mathematical Bulletin. Bulletin Canadien de Mathématiques. (Toronto)
- Časopis Pěst. Mat.* Československá Akademie Věd. Časopis pro Pěstování Matematiky. (Prague)
- Centaurus.* Centaurus. (Copenhagen)
- Chalmers Tekn. Högsk. Handl.* Chalmers Tekniska Högskolans Handlingar. Transactions of Chalmers University of Technology, Gothenburg, Sweden. (Gothenburg)
- Chiffres.* Chiffres. Revue de l'Association Française de Calcul. (Grenoble) (Continued as: *Rev. Franç. Traitement Information Chiffres*)
- Chinese Math.* Chinese Mathematics. Translation of *Acta Mathematica Sinica*. (Providence, R.I.) (Translation of *Acta Math. Sinica*)
- Ciência (Lisboa).* Ciência. Revista da Associação de Estudantes da Faculdade de Ciências de Lisboa. (Lisbon)
- Civiltà delle Macchine.* Civiltà delle Macchine. (Rome)
- Collect. Math.* Consejo Superior de Investigaciones Científicas. Universidad de Barcelona. Collectanea Mathematica. (Barcelona)
- Colloq. Math.* Colloquium Mathematicum. (Warsaw)
- Com. Acad. R. P. Romine.* Comunicările Academiei Republicii Populare Romine. (Bucharest)
- Comm. ACM.* Communications of the Association for Computing Machinery. (New York)
- Comm. and Electronics.* Communication and Electronics. (New York)
- Comm. Dublin Inst. Adv. Studies Ser. A.* Communications of the Dublin Institute for Advanced Studies. Series A. (Dublin)
- Comm. Fac. Sci. Univ. Ankara Sér. A.* Communications de la Faculté des Sciences de l'Université d'Ankara. Série A. Mathématiques-Physique-Astronomie. (Ankara)
- Comm. Pure Appl. Math.* Communications on Pure and Applied Mathematics. (New York)
- Comment. Math. Helv.* Commentarii Mathematici Helvetici. (Zürich)
- Comment. Math. Univ. Carolinae.* Commentationes Mathematicae Universitatis Carolinae. (Prague)
- Comment. Math. Univ. St. Paul.* Commentarii Mathematici Universitatis Sancti Pauli. Rikkyō Daigaku Sōgaku Zasshi. (Tokyo)
- Compositio Math.* Compositio Mathematica. (Groningen)
- Comput. Bull.* The Computer Bulletin. (London)
- Comput. J.* The Computer Journal. (London)
- Comput. Rev.* Computing Reviews. (New York) (Usually abbreviated *CR* in the text of *Math. Reviews*)
- Confer. Sem. Mat. Univ. Bari.* Conference del Seminario di Matematica dell'Università di Bari. (Bari)
- CR.* Computing Reviews. (New York)
- Cybernetica.* Cybernetica. (Namur)
- Czechoslovak J. Phys.* Československá Akademie Nauk. Československí Fyzikální Žurnal. Czechoslovak Academy of Sciences. Czechoslovak Journal of Physics. (Prague)
- Czechoslovak Math. J.* Československá Akademie Nauk. Československí Matematickí Žurnal. Czechoslovak Mathematical Journal. (Prague)
- Deutsche Geodät. Kommiss. Bayer. Akad. Wiss. Reihe B Angew. Geodäsie.* Deutsche Geodätische Kommission bei der Bayerischen Akademie der Wissenschaften. Reihe B. Angewandte Geodäsie. (Munich)
- Dialectica.* Dialectica. (Neuchâtel)
- Discussions Faraday Soc.* Discussions of the Faraday Society. (London)
- Dokl. Akad. Nauk BSSR.* Doklady Akademii Nauk BSSR. (Minsk)
- Dokl. Akad. Nauk SSSR.* Doklady Akademii Nauk SSSR. (Moscow) (Mathematics section translated as: *Soviet Math. Dokl.*; Physics section translated as: *Soviet Physics Dokl.*)
- Dokl. Akad. Nauk Tadžik. SSR.* Doklady Akademii Nauk Tadžikskoi SSR. (Dushanbe)
- Dopovidi Akad. Nauk Ukrain. RSR.* Dopovidi Akademii Nauk Ukrain's'koj Radjans'koj Socialističnoï Respubliki. (Kiev)
- Duke Math. J.* Duke Mathematical Journal. (Durham, N.C.)
- Econ. Proc. Roy. Dublin Soc.* The Economic Proceedings of the Royal Dublin Society. (Dublin) (Continued as: *Sci. Proc. Roy. Dublin Soc. Ser. B*)
- Econometrica.* Econometrica. Journal of the Econometric Society. (Chicago, Ill.)
- Edinburgh Math. Notes.* The Edinburgh Mathematical Notes. (Edinburgh) (Continued as: *Proc. Edinburgh Math. Soc. Edinburgh Math. Notes*)
- Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Tehn. Tead. Ser.* Eesti NSV Teaduste Akadeemia Toimetised. Füüsikalise-Matemaatilise ja Tehnilise Teaduste Sooria. Investija Akademii Nauk Estonskoj SSR. Serija Fiziko-Matematičeskij i Tehničeskij Nauk. (Tallin)
- Elektron. Datenverarbeitung.* Elektronische Datenverarbeitung. Fachberichte über programmgesteuerte Maschinen und ihre Anwendung. (Braunschweig)
- Elem. Math.* Elemente der Mathematik. Revue de Mathématiques Élémentaires. Rivista de Matematica Elementare. (Basel)
- English Abstracts Selected Articles Soviet Bloc and Mainland China Tech. J. Ser. I.* English Abstracts of Selected Articles from Soviet Bloc and Mainland China Technical Journals. Series I—Physics and Mathematics. (Washington, D.C.)
- Enseignement Math.* L'Enseignement Mathématique. (Geneva)
- Ericsson Technica.* Ericsson Technica. (Stockholm)
- Estadist. Española.* Estadística Española. (Madrid)
- Estadística.* Estadística. (Washington, D.C.)
- Euclides (Groningen).* Euclides. Tijdschrift voor de Didactiek der Exacte Vakken. (Groningen)
- Euclides (Madrid).* Euclides. Revista Mensual de Ciencias Exactas, Físicas, Químicas, Naturales y Aplicaciones Técnicas. (Madrid)
- Fac. Ingen. Agrimens. Montevideo Publ. Didact. Inst. Mat. Estadist.* Facultad de Ingeniería y Agrimensura. Montevideo. Publicaciones Didácticas del Instituto de Matemática y Estadística. (Montevideo)

ABBREVIATIONS OF NAMES OF JOURNALS

- Fac. Ingen. Montevideo Publ. Inst. Mat. Estadist.* Facultad de Ingenieria Montevideo. Publicaciones del Instituto de Matemática y Estadística. (Montevideo) (Continued as: *Univ. Repúb. Fac. Ingen. Agrimens. Montevideo Publ. Inst. Mat. Estadist.*)
- Fac. Philos. Univ. Skopje Sect. Sci. Nat. Annuaire.* Filozofski Fakultet na Universitetot-Skopje. Prirodno-Matematički Oddel. Faculté de Philosophie de l'Université de Skopje. Section des Sciences Naturelles. Annuaire. (Skopje) (Continued as: *Fac. Sci. Univ. Skopje Annuaire*)
- Fac. Sci. Univ. Skopje Annuaire.* Faculté des Sciences de l'Université de Skopje. Annuaire. (Skopje) (Formerly: *Fac. Philos. Univ. Skopje Sect. Sci. Nat. Annuaire*)
- Fibonacci Quart.* The Fibonacci Quarterly. Official Organ of The Fibonacci Association. A journal devoted to the study of integers with special properties. (St. Mary's College, Calif.)
- Fiz.-Mat. Spis. Bългар. Akad. Nauk.* Bългарiska Akademija na Naukite Fizičeski Institut. Matematičeski Institut. Fiziko-Matematičesko Spisanie. (Sofia)
- Fiz. Tverd. Tela.* Fizika Tverdogo Tela. (Moscow-Leningrad) (Translated as: *Soviet Physics Solid State*)
- Forsch. Gebiete Ingenieurwesens.* Forschung auf dem Gebiete des Ingenieurwesens. (Berlin)
- Fortschr. Physik.* Fortschritte der Physik. (Berlin)
- Fund. Appl. Aspects Math.* Fundamental and Applied Aspects of Mathematics. (Monograph Series of the Research Institute of Applied Electricity). (Sapporo)
- Fund. Math.* Polska Akademia Nauk. Fundamenta Mathematicae. (Warsaw)
- Funkcial. Ekvac.* Fako de l'Funkcialaj Ekvacioj Japana Matematika Societo. Funkcialaj Ekvacioj. (Serio Internacia). (Kobe)
- Gac. Mat. (Madrid).* Gaceta Matemática. (Madrid)
- Ganita.* Ganita. (Lucknow)
- Gaz. Mat. Fiz. Ser. A.* Societatea de Științe Matematice și Fizice din R. P. R. Gazeta Matematică și Fizică. Publicație Pentru Studiul și Răspîndirea Științelor Matematice și Fizice. Seria A. (Bucharest)
- Gaz. Mat. (Lisboa).* Gazeta de Matemática. (Lisbon)
- Genet. Res.* Genetical Research. (New York)
- Génie Civil.* Génie Civil. (Paris)
- Geodæt. Inst. Medd.* Geodætisk Institut. Meddelelse. (Copenhagen)
- Geofys. Publ. Norske Vid.-Akad. Oslo.* Geofysiske Publikasjoner Utgitt av det Norske Videnskaps-Akademi i Oslo. (Oslo)
- Giorn. Ist. Ital. Attuari.* Giornale dell'Istituto Italiano degli Attuari. (Rome)
- Giorn. Mat. Battaglini.* Giornale di Matematiche di Battaglini. (Naples)
- Giorn. Mat. Finanz.* Giornale di Matematica Finanziaria. Rivista Tecnica de Credito e della Previdenza. (Rome)
- Glas Srpske Akad. Nauka Od. Prirod.-Mat. Nauka.* Glas Srpske Akademija Nauka. Odeljenje Prirodno-Matematičkih Nauka. (Belgrade) (Continued as: *Acad. Serbe Sci. Arts Glas Cl. Sci. Math. Nat.*)
- Glasnik Mat.-Fiz. Astronom. Društvo Mat. Fiz. Hrvatske Ser. II.* Glasnik Matematičko-Fizički i Astronomski. Periodicum Mathematico-Physicum et Astronomicum. Serija II. Društvo Matematičara i Fizičara Hrvatske. Societas Mathematicorum et Physicorum Croatiae. (Zagreb)
- Godišnik Sof. Univ. Fiz.-Mat. Fakultet Kniga 1 Mat.* (Sofia) See *Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre 1 Math.*
- Gruzin. Politehn. Inst. Trudy.* Gruzinakii Politehničeskii Institut im. V. I. Lenina. Trudy. (Tiflis)
- Helv. Phys. Acta.* Helvetica Physica Acta. Societatis Physicae Helveticae Commentaria Publica. (Basel)
- Hochfrequenztech. Elektroakust.* Hochfrequenztechnik und Elektroakustik. (Leipzig)
- Houille Blanche.* La Houille Blanche. Revue de l'Ingénieur Hydraulicien. (Grenoble)
- IBM J. Res. Develop.* IBM Journal of Research and Development. (New York)
- Icarus.* Icarus. International Journal of the Solar System. (New York)
- ICC Bull.* ICC Bulletin. (Rome)
- IEEE Trans. Antennas and Propagation.* IEEE Transactions on Antennas and Propagation. (New York) (Formerly: *IRE Trans.*)
- IEEE Trans. Automatic Control.* IEEE Transactions on Automatic Control. (New York) (Formerly: *IRE Trans.*)
- IEEE Trans. Circuit Theory.* IEEE Transactions on Circuit Theory. (New York) (Formerly: *IRE Trans.*)
- IEEE Trans. Communication Systems.* IEEE Transactions on Communication Systems. (New York) (Formerly: *IRE Trans.*)
- IEEE Trans. Education.* IEEE Transactions on Education. (New York) (Formerly: *IRE Trans.*)
- IEEE Trans. Electronic Computers.* IEEE Transactions on Electronic Computers. (New York) (Formerly: *IRE Trans.*)
- IEEE Trans. Information Theory.* IEEE Transactions on Information Theory. (New York) (Formerly: *IRE Trans.*)
- IEEE Trans. Nuclear Science.* IEEE Transactions on Nuclear Science. (New York) (Formerly: *IRE Trans.*)
- IEEE Trans. Reliability.* IEEE Transactions on Reliability. (New York) (Formerly: *IRE Trans.*)
- IEEE Trans. Space Electronics and Telemetry.* IEEE Transactions on Space Electronics and Telemetry. (New York) (Formerly: *IRE Trans.*)
- Illinois J. Math.* Illinois Journal of Mathematics. (Urbana, Ill.)
- Indag. Math.* (Amsterdam) See *Nederl. Akad. Wetensch. Indag. Math.*
- Indian J. Math.* Indian Journal of Mathematics. (Allahabad)
- Indian J. Phys.* Indian Journal of Physics and Proceedings of the Indian Association for the Cultivation of Science. (Calcutta)
- Indian J. Theoret. Phys.* Indian Journal of Theoretical Physics. (Calcutta)
- Indust. Math.* Industrial Mathematics. (Detroit, Mich.)
- Information and Control.* Information and Control. (New York)
- Information Storage and Retrieval.* Information Storage and Retrieval. (Oxford-New York)
- Ing.-Arch.* Ingenieur-Archiv. (Berlin-Göttingen-Heidelberg)
- Inst. Hautes Études Sci. Publ. Math.* Institut des Hautes Études Scientifiques. Publications Mathématiques. (Paris)
- Inst. Politehn. Cluj Lucrări Ști.* Ministerul Învățămîntului și Culturii Institutul Politehnic Cluj. Lucrări Științifice. (Cluj) (Continued as: *Bul. Ști. Inst. Politehn. Cluj*)
- Internat. Abstracts Operations Res.* International Abstracts in Operations Research. (Baltimore, Md.)
- Internat. J. Abstracts Statist. Theory Method.* International Journal of Abstracts. Statistical Theory and Method. (London)
- Internat. J. Mech. Sci.* International Journal of Mechanical Sciences. (Oxford)

ABBREVIATIONS OF NAMES OF JOURNALS

- Internat. Math. Nachr.* Internationale Mathematische Nachrichten. (Vienna)
- Internat. Sci. and Tech.* International Science and Technology. (New York)
- Int.-Stroitel. Inst. Kuibyshev. Sb. Trudov.* Moskovskii Ordena Trudovogo Krasnogo Znameni. Inzhenerno-Stroitel'nyi Institut im. V. V. Kuibysheva. Sbornik Trudov. (Moscow)
- Inf. Zh.* Inzhenernyi Zhurnal. Organ Otdeleniya Tehnicheskikh Nauk i Instituta Mehaniki Akademii Nauk SSSR. (Moscow)
- IRE Trans.* IRE Transactions. (New York) (Continued as: *IEEE Trans.*)
- Isis.* Isis. An International Review Devoted to the History of Science and Civilization. (Cambridge, Mass.)
- Ist. Lombardo Accad. Sci. Lett. Rend. A.* Istituto Lombardo. Accademia di Scienze e Lettere. Rendiconti. Scienze Matematiche, Fisiche, Chimiche e Geologiche. A. (Milan)
- Ist. Lombardo Sci. Lett. Rend. Parte Gen. e Atti Uff.* Istituto Lombardo di Scienze e Lettere. Rendiconti. Parte Generale e Atti Ufficiali. (Milan)
- Ist. Veneto Sci. Lett. Arti Atti Cl. Sci. Mat. Nat.* Istituto Veneto de Scienze, Lettere ed Arti. Venezia. Atti. Classe de Scienze Matematiche e Naturali. (Venice)
- Istanbul Tek. Univ. Bul.* Istanbul Teknik Üniversitesi Bülteni. Bulletin of the Technical University of Istanbul. (Istanbul) (Formerly: *Bull. Tech. Univ. Istanbul*)
- Istanbul Univ. Fen Fak. Mec. Ser. A.* İstanbul Üniversitesi Fen Fakültesi Mecmuası. Seri A: Sıfır ve Tatbiki Matematik. Revue de la Faculté des Sciences de l'Université d'Istanbul. Série A: Mathématiques Pures et Appliquées. (Istanbul) (Formerly: *Rev. Fac. Sci. Univ. Istanbul Sér. A*)
- Istanbul Univ. Fen Fak. Mec. Ser. C.* İstanbul Üniversitesi Fen Fakültesi Mecmuası. Seri C: Astronomi-Fizik-Kimya. Revue de la Faculté des Sciences de l'Université d'Istanbul. Série C: Astronomie-Physique-Chimie. (Istanbul) (Formerly: *Rev. Fac. Sci. Univ. Istanbul Sér. C*)
- Istor.-Astronom. Issled.* Istoriko-Astronomicheskie Issledovaniya. (Moscow)
- Istor.-Mat. Issled.* Istoriko-Matematicheskie Issledovaniya. (Moscow-Leningrad)
- Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk.* Izvestiya Akademii Nauk Armjanakol SSR. Seriya Fiziko-Matematicheskikh Nauk. (Erevan)
- Izv. Akad. Nauk Armjan. SSR Ser. Tehn. Nauk.* Izvestiya Akademii Nauk Armjanakol SSR. Seriya Tehnicheskikh Nauk. (Erevan)
- Izv. Akad. Nauk Azerbaidzhan. SSR. Ser. Fiz.-Mat. Tehn. Nauk.* Izvestiya Akademii Nauk Azerbaidzhanakol SSR. Seriya Fiziko-Matematicheskikh i Tehnicheskikh Nauk. (Baku)
- Izv. Akad. Nauk SSSR Ser. Fiz.* Izvestiya Akademii Nauk SSSR. Seriya Fizicheskaja. (Moscow)
- Izv. Akad. Nauk SSSR Ser. Geofiz.* Izvestiya Akademii Nauk SSSR. Seriya Geofizicheskaja. (Moscow) (Translated as: *Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.*)
- Izv. Akad. Nauk SSSR Ser. Mat.* Izvestiya Akademii Nauk SSSR. Seriya Matematicheskaja. (Moscow)
- Izv. Akad. Nauk Turkmen. SSR Ser. Fiz.-Tehn. Him. Geol. Nauk.* Izvestiya Akademii Nauk Turkmenakol SSR. Seriya Fiziko-Tehnicheskikh, Himicheskikh i Geologicheskikh Nauk. (Ashkhabad)
- Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk.* Izvestiya Akademii Nauk UzSSR. Seriya Fiziko-Matematicheskikh Nauk. UzSSR Fanlar Akademijasining Ahboroti. Fizika-Matematika Fanlari Serijasi. (Tashkent)
- Izv. Bŭlgar. Akad. Nauk. Otd. Fiz.-Mat. Tehn. Nauk. Ser. Fiz.* Izvestiya na Bŭlgarskata Akademiya na Naukite. Otdelenie za Fiziko-Matematicheski i Tehnicheski Nauki. Seriya Fizicheska. (Sofia)
- Izv. Kazan. Fil. Akad. Nauk SSSR Ser. Fiz.-Mat. i Tehn. Nauk.* Izvestiya Kazanskogo Filiala Akademii Nauk SSSR. Seriya Fiziko-Matematicheskikh i Tehnicheskikh Nauk. (Kazan)
- Izv. Krymk. Ped. Inst.* Izvestiya Krymskogo Pedagogicheskogo Instituta im. M. V. Frunze. (Simferopol)
- Izv. Vysš. Učebn. Zaved. Matematika.* Ministerstvo Vysšego Obrazovaniya SSSR. Izvestiya Vysših Učebnyh Zavedenii. Matematika. (Kazan)
- J. Acoust. Soc. Amer.* The Journal of the Acoustical Society of America. (New York)
- J. Aerospace Sci.* Journal of the Aerospace Sciences. (New York) (Continued as: *AIAA J.*)
- J. Amer. Statist. Assoc.* Journal of the American Statistical Association. (Washington, D.C.)
- J. Analyse Math.* Journal d'Analyse Mathématique. (Jerusalem)
- J. Annamalai Univ. Part B Sci.* Journal of the Annamalai University. Part B. Sciences. (Annamalainagar)
- J. Appl. Math. Mech.* Journal of Applied Mathematics and Mechanics. (Translation of the Soviet journal *Prikladnaya Matematika i Mehanika*). (New York) (Translation of *Prikl. Mat. Meh.*)
- J. Appl. Mech.* Journal of Applied Mechanics. (New York) (Continued as: *Trans. ASME Ser. E, J. Appl. Mech.*)
- J. Appl. Phys.* Journal of Applied Physics. (New York)
- J. Assoc. Comput. Mach.* Journal of the Association for Computing Machinery. (New York)
- J. Austral. Math. Soc.* The Journal of the Australian Mathematical Society. (Sydney)
- J. Chem. Phys.* The Journal of Chemical Physics. (New York)
- J. College Arts Sci. Chiba Univ.* Journal of the College of Arts and Sciences, Chiba University. (Chiba)
- J. Electronics Control.* Journal of Electronics and Control. (London)
- J. Fac. Sci. Hokkaido Univ. Ser. I.* Journal of the Faculty of Science. Hokkaido University. Series I. Mathematics. (Sapporo)
- J. Fac. Sci. Niigata Univ. Ser. I.* Journal of the Faculty of Science. Niigata University. Series I. Mathematics, Physics and Chemistry. (Niigata)
- J. Fac. Sci. Univ. Tokyo Sect. I.* Journal of the Faculty of Science. University of Tokyo. Section I. Mathematics, Astronomy, Physics, Chemistry. (Tokyo)
- J. Fluid Mech.* Journal of Fluid Mechanics. (London)
- J. Franklin Inst.* Journal of the Franklin Institute. (Philadelphia, Pa.)
- J. Gakugei Tokushima Univ.* Journal of the Gakugei College. Tokushima University. (Natural Science). (Tokushima)
- J. Geophys. Res.* Journal of Geophysical Research. (Washington, D.C.)
- J. Indian Inst. Sci.* Journal of the Indian Institute of Science. (Bangalore)
- J. Indian Math. Soc.* The Journal of the Indian Mathematical Society. (Madras)
- J. Indian Soc. Agric. Statist.* Journal of the Indian Society of Agricultural Statistics. (New Delhi)
- J. Inst. Actuar.* Journal of the Institute of Actuaries. (London)
- J. Inst. Polytech. Osaka City Univ. Ser. A.* Journal of the Institute of Polytechnics. Osaka City University. Series A. Mathematics. (Osaka) (Continued as: *J. Math. Osaka City Univ.*)
- J. Karnatak Univ.* Journal of the Karnatak University. (Dharwar)
- J. London Math. Soc.* The Journal of the London Mathematical Society. (London)

ABBREVIATIONS OF NAMES OF JOURNALS

- J. Madras Univ. Sect. B.* Journal of the Madras University. Section B. (Madras)
- J. Math. Anal. Appl.* Journal of Mathematical Analysis and Applications. (New York)
- J. Math. and Phys.* Journal of Mathematics and Physics. (Cambridge, Mass.)
- J. Math. Kyoto Univ.* Journal of Mathematics of Kyoto University. (Kyoto) (Formerly: *Mem. Coll. Sci. Univ. Kyoto Ser. A*)
- J. Math. Mech.* Journal of Mathematics and Mechanics. (Bloomington, Ind.)
- J. Math. Osaka City Univ.* Journal of Mathematics. Osaka City University. (Osaka) (Formerly: *J. Inst. Polytech. Osaka City Univ. Ser. A*)
- J. Math. Pures Appl.* Journal de Mathématiques Pures et Appliquées. (Paris)
- J. Math. Soc. Japan.* Journal of the Mathematical Society of Japan. (Tokyo)
- J. Mathematical Phys.* Journal of Mathematical Physics. (New York)
- J. Méc. Phys. Atmos.* Journal de Mécanique et de Physique de l'Atmosphère. (Paris) (Formerly: *J. Sci. Météorol.*)
- J. Mécanique.* Journal de Mécanique. (Paris)
- J. Mech. Phys. Solids.* Journals of the Mechanics and Physics of Solids. (London)
- J. Nara Gakugei Univ.* The Journal of Nara Gakugei University. (Nara)
- J. Nat. Sci. and Math.* The Journal of Natural Sciences and Mathematics. (Lahore)
- J. Operations Res. Soc. Japan.* Journal of the Operations Research Society of Japan. (Tokyo)
- J. Opt. Soc. Amer.* Journal of the Optical Society of America. (New York)
- J. Osaka Inst. Sci. Tech. Part I.* Journal of the Osaka Institute of Science and Technology. (Kinki University). Part I. Mathematics and Physics. (Osaka)
- J. Phys. Soc. Japan.* Journal of the Physical Society of Japan. (Tokyo)
- J. Proc. Roy. Soc. New South Wales.* Journal and Proceedings of the Royal Society of New South Wales. (Sydney)
- J. Rech. Centre Nat. Rech. Sci.* Journal des Recherches du Centre National de la Recherche Scientifique. (Paris)
- J. Reine Angew. Math.* Journal für die reine und angewandte Mathematik. (Berlin)
- J. Res. Nat. Bur. Standards Sect. B.* Journal of Research of the National Bureau of Standards. B. Mathematics and Mathematical Physics. (Washington, D.C.)
- J. Res. Nat. Bur. Standards Sect. D.* Journal of Research of the National Bureau of Standards. D. Radio Propagation. (Washington, D.C.)
- J. Roy. Aero. Soc.* The Journal of the Royal Aeronautical Society. (London)
- J. Roy. Astronom. Soc. Canada.* The Journal of the Royal Astronomical Society of Canada. (Toronto)
- J. Roy. Statist. Soc. Ser. A.* Journal of the Royal Statistical Society. Series A. (General). (London)
- J. Roy. Statist. Soc. Ser. B.* Journal of the Royal Statistical Society. Series B. (Methodological). (London)
- J. Sci. Engrg. Res.* Journal of Science and Engineering Research. (Kharagpur)
- J. Sci. Hiroshima Univ. Ser. A.* Journal of Science of the Hiroshima University. Series A (Mathematics, Physics, Chemistry). (Hiroshima) (Continued as: *J. Sci. Hiroshima Univ. Ser. A-I Math.*)
- J. Sci. Hiroshima Univ. Ser. A-I Math.* Journal of Science of the Hiroshima University. Series A-I (Mathematics). (Hiroshima) (Formerly: *J. Sci. Hiroshima Univ. Ser. A*)
- J. Sci. Météorol.* Journal Scientifique de la Météorologie. (Paris) (Continued as: *J. Méc. Phys. Atmos.*)
- J. Sci. Res. Banaras Hindu Univ.* The Journal of Scientific Research of the Banaras Hindu University. (Banaras)
- J. Sci. Res. Inst. Tokyo.* Journal of the Scientific Research Institute. (Tokyo) (Continued as: *Sci. Papers Inst. Phys. Chem. Res.*)
- J. SIAM Control Ser. A.* Journal of the Society for Industrial and Applied Mathematics on Control. Series A. (Philadelphia, Pa.)
- J. Soc. Indust. Appl. Math.* Journal of the Society for Industrial and Applied Mathematics. (Philadelphia, Pa.)
- J. Symbolic Logic.* The Journal of Symbolic Logic. (New Brunswick, N.J.)
- J. Univ. Bombay.* Journal of the University of Bombay. (Bombay)
- J. Washington Acad. Sci.* Journal of the Washington Academy of Sciences. (Washington, D.C.)
- J. Zosen Kiokai.* Journal of Zosen Kiokai. (Tokyo)
- Janus.* Janus. Revue Internationale de l'Histoire des Sciences, de la Médecine, de la Pharmacie et de la Technique. (Leiden)
- Japan. J. Math.* Science Council of Japan. Japanese Journal of Mathematics. (Tokyo)
- Jber. Deutsch. Math.-Verein.* Jahresbericht der Deutschen Mathematiker-Vereinigung. (Stuttgart)
- Jugoslav. Akad. Znan. Umjet. Rasprave Odj. Mat. Fiz. Tehn. Nauk.* Jugoslavenska Akademija Znanosti i Umjetnosti. Rasprave Odjela za Matematičke, Fizičke i Tehničke Nauke. (Zagreb)
- Kiev. Derž. Ped. Inst. Nauk. Zap.* Ministerstvo Osviti URSS. Kiivskii Deržavnyi Pedagogičeskii Institut im. O. M. Gor'kogo. Naukovii Zapiski. (Kiev)
- Kišinev. Gos. Univ. Učen. Zap.* Komitet Vyššego i Srednego Special'nogo Obrazovaniia Soveta Ministrov Moldavskoi SSR. Kišinevskii Gosudarstvennyi Universitet. Učenyi Zapiski. (Kišinev)
- Kōdai Math. Sem. Rep.* Kōdai Mathematical Seminar Reports. (Tokyo)
- Köz. Mat. Lapok.* Középszkolai Matematikai Lapok. (Budapest)
- Kumamoto J. Sci. Ser. A.* Kumamoto Journal of Science. Series A. (Mathematics, Physics and Chemistry). (Kumamoto)
- Kungl. Fysiogr. Sällsk. i Lund Förh.* Kungl. Fysiografiska Sällskapet i Lund Förhandlingar. Proceedings of the Royal Physiographic Society at Lund. (Lund)
- Kungl. Fysiogr. Sällsk. i Lund Handl.* Acta Regiae Societatis Physiographicae Lundensis. Kungl. Fysiografiska Sällskapet i Lund Handlingar. (Lund) (Same as: *Lunds Univ. Årsskr. Avd. 2*)
- Kungl. Svenska Vetenskapsakad. Handl.* Kungl. Svenska Vetenskapsakademiens Handlingar. (Stockholm)
- Kungl. Tekn. Högsk. Handl. Stockholm.* Kungl. Tekniska Högskolans Handlingar. Transactions of the Royal Institute of Technology, Stockholm, Sweden. (Stockholm)
- Kybernetik.* Kybernetik. (Berlin)
- Kyungpook Math. J.* Kyungpook Mathematical Journal. (Taegu)
- Latvijas PSR Zinātņu Akad. Vēstis.* Latvijas PSR Zinātņu Akadēmijas Vēstis. Izvēstis Akademijai Nauk Latvijas PSR. (Rīga)
- Latvijas Valsts Univ. Zinātņu Raksti.* PSRS Augstākās Izglītības Ministrija. Pēteris Stučka Latvijas Valsts Universitāte. Zinātniskie Raksti. Ministerstvo Vyššego Obrazovaniia. Latviiskii Gosudarstvennyi Universitet im. Petra Stučki. Učenyi Zapiski. (Rīga)

ABBREVIATIONS OF NAMES OF JOURNALS

- Leningrad. Gos. Univ. Učen. Zap. Ser. Mat. Nauk.* Leningradskii Gosudarstvennyi Ordena Lenina Universitet im. A. A. Zdanova. Učeno Zapiski. Serija Matematičeskii Nauk. (Leningrad)
- Litovsk. Mat. Sb.* Vysšie Učebnye Zavedenija Litovskoi SSR Litovskii Matematičeskii Sbornik. (Vilna)
- Logique et Analyse.* Logique et Analyse. (Louvain)
- Lucrăr. Ști. Inst. Ped. Timișoara Mat.-Fiz.* Ministerul Învățămîntului și Culturii. Lucrările Științifice ale Institutului Pedagogic Timișoara. Matematică-Fizică. (Timișoara)
- Lunds Univ. Årskr. Ård. 2.* Acta Universitatis Lundensis. Lunds Universitets Årskrift. Andra Avdelningen. (Lund) (Same as: *Kungl. Fysiogr. Sällsk. i Lund. Handl.*)
- L'voe. Politehn. Inst. Naučn. Zap. Ser. Fiz.-Mat.* MVO USSR. L'vovskii Politehničeskii Institut. Naučnye Zapiski. Serija Fiziko-Matematičeskaja. (Lvov)
- Magyar Tud. Akad. Mat. Fiz. Ossz. Köt.* A Magyar Tudományos Akadémia Matematikai és Fizikai Tudományok Osztályának Közleményei. (Budapest)
- Magyar Tud. Akad. Mat. Kutató Int. Köz.* A Magyar Tudományos Akadémia Matematikai Kutató Intézetének Közleményei. (Budapest)
- Management Sci.* Management Science. Journal of the Institute of Management Science. (Philadelphia, Pa.)
- Mat.-Fys. Medd. Danske Vid. Selsk.* Matematikfysiske Meddelelser udgivet af Det Kongelige Danske Videnskabernes Selskab. (Copenhagen)
- Mat.-Fys. Skr. Danske Vid. Selsk.* Matematikfysiske Skrifter udgivet af Det Kongelige Danske Videnskabernes Selskab. (Copenhagen)
- Mat.-Fyz. Časopis Sloven. Akad. Vied.* Matematiko-Fyzikálny Časopis. Slovenská Akadémia Vied. (Bratislava)
- Mat. Lapok.* Matematikai Lapok. Bolyai János Matematikai Társulat. (Budapest)
- Mat. Sb.* Matematičeskii Sbornik. Novaja Serija. (Moscow)
- Matematiche (Catania).* Le Matematiche. (Catania)
- Math. Ann.* Mathematische Annalen. (Berlin-Göttingen-Heidelberg)
- Math. Centrum Amsterdam Afd. Toegepaste Wisk.* Mathematisch Centrum Amsterdam. Afd. Toegepaste Wiskunde. (Amsterdam)
- Math. Centrum Amsterdam Rap.* Mathematisch Centrum Amsterdam. Rapport. (Amsterdam)
- Math. Centrum Amsterdam Rekenafdeling.* Mathematisch Centrum Amsterdam. Rekenafdeling. (Amsterdam)
- Math. Comp.* Mathematics of Computation. (Washington, D.C.) (Formerly: *MTAC*)
- Math. Gaz.* The Mathematical Gazette. (London)
- Math. J. Okayama Univ.* Mathematical Journal of Okayama University. (Okayama)
- Math. Japon.* Mathematica Japonicae. (Kobe)
- Math. Mag.* Mathematics Magazine. (Buffalo, N.Y.)
- Math. Nachr.* Mathematische Nachrichten. (Berlin)
- Math. Naturwiss. Unterricht.* Der mathematische und naturwissenschaftliche Unterricht. (Bonn)
- Math. Notas.* Mathematicae Notae. Boletín del Instituto de Matemática. (Rosario)
- Math.-Phys. Semesterber.* Mathematisch-Physikalische Semesterberichte. (Göttingen)
- Math. Reviews.* Mathematical Reviews. (Providence, R.I.) (Usually abbreviated as *MR* in the text of *Math. Reviews*)
- Math. Scand.* Mathematica Scandinavica. (Copenhagen)
- Math. Student.* The Mathematics Student. (Madras)
- Math.-Tech.-Wirtschaft.* Mathematik-Technik-Wirtschaft. Zeitschrift für moderne Rechentechnik und Automation. (Vienna)
- Math. Z.* Mathematische Zeitschrift. (Berlin-Göttingen-Heidelberg)
- Mathematica (Cluj).* Societatea de Științe Matematice și Fizice din R.P.R. Filiala Cluj. Mathematica. (Cluj)
- Mathematika.* Mathematika. A Journal of Pure and Applied Mathematics. (London)
- Mathesis.* Mathesis. Recueil Mathématique à l'Usage des Écoles Spéciales et des Établissements d'Instruction Moyenne. (Mons)
- Matrix Tensor Quart.* The Tensor Club of Great Britain. The Matrix and Tensor Quarterly. (London)
- Medd. Lunds Astronom. Obs. Ser. I.* Meddelande från Lunds Astronomiska Observatorium. Series I. (Lund)
- Medd. Lunds Astronom. Obs. Ser. II.* Meddelande från Lunds Astronomiska Observatorium. Series II. (Lund)
- Medd. Lunds Univ. Mat. Sem.* Meddelanden från Lunds Universitets Matematiska Seminarium. Communications du Séminaire Mathématique de l'Université de Lund. (Lund)
- Mem. Acad. Ci. Madrid.* Memorias de la Real Academia de Ciencias Exactas, Físicas y Naturales de Madrid. Serie de Ciencias Exactas. (Madrid)
- Mem. Amer. Math. Soc.* Memoirs of the American Mathematical Society. (Providence, R.I.)
- Mem. Coll. Sci. Univ. Kyoto Ser. A.* Memoirs of the College of Science. University of Kyoto. Series A. (Kyoto) (Continued as: *J. Math. Kyoto Univ.*)
- Mem. Coll. Sci. Univ. Kyoto Ser. A Math.* Memoirs of the College of Science. University of Kyoto. Series A. Mathematics. (Kyoto)
- Mem. Defense Acad.* Memoirs of the Defense Academy (Mathematics, Physics, Chemistry and Engineering) (Yokosuka)
- Mem. Fac. Ed. Kumamoto Univ.* Memoirs of the Faculty of Education. Kumamoto University. (Kumamoto)
- Mem. Fac. Engrg. Hiroshima Univ.* Memoirs of the Faculty of Engineering. Hiroshima University. (Hiroshima)
- Mem. Fac. Engrg. Miyazaki Univ.* Memoirs of the Faculty of Engineering. Miyazaki University. (Miyazaki)
- Mem. Fac. Sci. Kyushu Univ. Ser. A.* Memoirs of the Faculty of Science. Kyushu University. Series A. Mathematics. (Fukuoka)
- Mem. Ist. Lombardo Accad. Sci. Lett. Cl. Sci. Mat. Nat.* Memorie dell'Istituto Lombardo. Accademia di Scienze e Lettere. Classe di Scienze Matematiche e Naturali. (Milan) (Formerly: *Mem. Ist. Lombardo Cl. Sci. Mat. Nat.*)
- Mem. Ist. Lombardo Cl. Sci. Mat. Nat.* Memorie dell'Istituto Lombardo di Scienze e Lettere. Classe di Scienze Matematiche e Naturali. (Milan) (Continued as: *Mem. Ist. Lombardo Accad. Sci. Lett. Cl. Sci. Mat. Nat.*)
- Mem. Inst. "Jorge Juan".* Consejo Superior de Investigaciones Científicas. Memorias de Matemática del Instituto "Jorge Juan". (Madrid)
- Mem. Osaka Univ. Lib. Arts Ed. Ser. B.* Memoirs of the Osaka University of the Liberal Arts and Education. Series B. Natural Science. (Osaka)
- Mem. Proc. Manchester Lit. Philos. Soc.* Memoirs and Proceedings of the Manchester Literary & Philosophical Society. (Manchester)
- Mem. Real Acad. Ci. Art. Barcelona.* Memorias de la Real Academia de Ciencias y Artes de Barcelona. (Barcelona)
- Mem. Roy. Astronom. Soc.* Memoirs of the Royal Astronomical Society. (London)
- Mem. School Sci. Engrg. Waseda Univ. Tokyo.* Memoirs of the School of Science and Engineering. Waseda University. Tokyo. (Tokyo)
- Mem. Soc. Astronom. Ital.* Memorie della Società Astronomica Italiana. (Milan)

ABBREVIATIONS OF NAMES OF JOURNALS

- Mém. Soc. Roy. Sci. Liège Coll. in-4°.* Mémoires de la Société Royale des Sciences de Liège. Collection in-4°. (Liège)
- Mém. Soc. Roy. Sci. Liège Coll. in-8°.* Mémoires de la Société Royale des Sciences de Liège. Collection in-8°. (Liège)
- Mémor. Sci. Math.* Mémorial des Sciences Mathématiques. (Paris)
- Mémor. Sci. Phys.* Mémorial des Sciences Physiques. (Paris)
- Météorol.* La Météorologie. (Paris) (Formerly listed as: *La Météorol.*)
- Metrika.* Metrika. (Würzburg)
- Metroecon.* Metroeconomica. Rivista Internazionale di Economica. (Bologna)
- Metron.* Metron. (Rome)
- Michigan Math. J.* The Michigan Mathematical Journal. (Ann Arbor, Mich.)
- Min. Proc. Roy. Irish Acad.* Minutes of Proceedings. Royal Irish Academy. (Dublin)
- Mind.* Mind. A Quarterly Review of Psychology and Philosophy. (London)
- Mitt. Inst. Angew. Math. Zürich.* Mitteilungen aus dem Institut für angewandte Mathematik an der Eidgenössischen Technischen Hochschule in Zürich. (Zürich)
- Mitt. Inst. Theoret. Phys. Geophys. Bergakad. Freiberg.* Mitteilungen aus dem Institut für Theoretische Physik und Geophysik der Bergakademie Freiberg. (Freiberg)
- Mitt. Math. Ges. Hamburg.* Mitteilungen der mathematischen Gesellschaft in Hamburg. (Hamburg)
- Mitt. Math. Sem. Univ. Gießen.* Mitteilungen des Mathematischen Seminars der Universität Gießen. (Gießen)
- Mitt. Max-Planck-Inst. Strömungsforsch.* Mitteilungen aus dem Max-Planck-Institut für Strömungsforschung. (Göttingen)
- Mitt. Naturforsch. Ges. Bern.* Mitteilungen der Naturforschenden Gesellschaft Bern. (Bern)
- Mitt. Verein. Schweiz. Versich.-Math.* Mitteilungen der Vereinigung Schweizerischer Versicherungsmathematiker. Bulletin de l'Association des Actuaires Suisses. (Bern)
- Molecular Phys.* Molecular Physics. (London)
- Monatsh. Deutsch. Akad. Wiss. Berlin.* Monatsberichte der Deutschen Akademie der Wissenschaften zu Berlin. (Berlin)
- Monatsh. Math.* Monatshefte für Mathematik. (Vienna)
- Monthly Notices Roy. Astronom. Soc.* Monthly Notices of the Royal Astronomical Society. (London)
- Moskov. Gos. Univ. Soobšč. Gos. Astronom. Inst. Šternberg.* Moskovskij Gosudarstvennyj Universitet im. M. V. Lomonosova. Soobščeniya Gosudarstvennogo Astronomičeskogo Instituta im. P. K. Šternberga. (Moscow)
- Moskov. Gos. Univ. Trudy Gos. Astronom. Inst. Šternberg.* Moskovskij Gosudarstvennyj Universitet im. M. V. Lomonosova. Trudy Gosudarstvennogo Astronomičeskogo Instituta im. P. K. Šternberga. (Moscow)
- Moskov. Oblast. Ped. Inst. Učen. Zap. Moskovskij Oblastnoj Pedagogičeskij Institut. Učenyje Zapiski.* (Moscow)
- MR.* Mathematical Reviews. (Providence, R.I.)
- MTAC.* Mathematical Tables and Other Aids to Computation. (Washington, D.C.) (Continued as: *Math. Comp.*)
- Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II.* Nachrichten der Akademie der Wissenschaften in Göttingen. II. Mathematisch-Physikalische Klasse. (Göttingen)
- Nagoya Math. J.* Nagoya Mathematical Journal. (Nagoya)
- Nat. Bur. Standards Appl. Math. Ser.* National Bureau of Standards. Applied Mathematics Series. (Washington, D.C.)
- Nat. Luchtvaartlab. Amsterdam Rep.* Nationaal Luchtvaartlaboratorium. National Aeronautical Research Institute, Amsterdam. Report. (Amsterdam)
- Nat. Sci. Rep. Lib. Arts Sci. Fac. Shizuoka Univ.* Natural Science Reports of Liberal Arts and Science Faculty. Shizuoka University. (Shizuoka) (Continued as: *Rep. Lib. Arts Sci. Fac. Shizuoka Univ. Sect. Nat. Sci.*)
- Nat. Sci. Rep. Ochanomizu Univ.* Natural Science Report of the Ochanomizu University. (Tokyo)
- Nature.* Nature. (London)
- Naturwissenschaften.* Die Naturwissenschaften. (Berlin-Göttingen-Heidelberg)
- Naval Res. Logist. Quart* Naval Research Logistics Quarterly. (Washington, D.C.)
- Navigation.* Navigation. Journal of the Institute of Navigation. (Los Angeles, Calif.)
- Nederl. Akad. Wetensch. Indag. Math.* Koninklijke Nederlandse Akademie van Wetenschappen. Indagationes Mathematicae ex Actis Quibus Titulus. Proceedings of the Section of Sciences. (Amsterdam) (Same as: *Nederl. Akad. Wetensch. Proc. Ser. A*)
- Nederl. Akad. Wetensch. Proc. Ser. A.* Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series A. Mathematical Sciences. (Amsterdam) (Same as: *Nederl. Akad. Wetensch. Indag. Math.*)
- Nederl. Akad. Wetensch. Proc. Ser. B.* Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series B. Physical Sciences. (Amsterdam)
- Nederl. Akad. Wetensch. Verslag Afd. Natuurk.* Koninklijke Nederlandse Akademie van Wetenschappen. Verslag van de Gewone Vergadering van de Afdeling Natuurkunde. (Amsterdam) (Formerly: *Nederl. Akad. Wetensch. Verslagen Afd. Natuurk.*)
- Nederl. Akad. Wetensch. Verslagen Afd. Natuurk.* Koninklijke Nederlandse Akademie van Wetenschappen. Verslagen van de Gewone Vergaderingen der Afdeling Natuurkunde. (Amsterdam) (Continued as: *Nederl. Akad. Wetensch. Verslag Afd. Natuurk.*)
- Nederl. Tijdschr. Natuurk.* Nederlands Tijdschrift voor Natuurkunde. (Utrecht)
- New Zealand J. Sci.* New Zealand Journal of Science. (Wellington) (Formerly: *New Zealand J. Sci. Tech. Sect. B*)
- New Zealand J. Sci. Tech. Sect. B.* New Zealand Journal of Science and Technology. B. General Research Section. (Wellington) (Continued as: *New Zealand J. Sci.*)
- Nieuw Arch. Wisk.* Nieuw Archief voor Wiskunde. (Groningen)
- Nieuw Tijdschr. Wisk.* Nieuw Tijdschrift voor Wiskunde. (Groningen-Djakarta)
- Nordisk Mat. Tidsskr.* Nordisk Matematisk Tidsskrift. (Oslo)
- Norske Vid. Selsk. Forh. (Trondheim).* Det Kongelige Norske Videnskabs Selskabs Forhandlinger. (Trondheim)
- Norske Vid. Selsk. Skr. (Trondheim).* Det Kongelige Norske Videnskabs Selskabs Skrifter. (Trondheim)
- Notas Mat.* Notas de Matemática. (Rio de Janeiro)
- Notre Dame J. Formal Logic.* Notre Dame Journal of Formal Logic. (Notre Dame, Ind.)
- Nova Acta Soc. Sci. Upsal.* Nova Acta Regiae Societatis Scientiarum Upsalienis. (Uppsala)
- Nuclear Phys.* Nuclear Physics. (Amsterdam)
- Nuclear Sci. Abstracts.* Nuclear Science Abstracts. (Oak Ridge, Tenn.)
- Nucleus.* Nucleus. La Revue Scientifique à l'Âge Atomique. (Paris) (Formerly: *Rev. Sci.*)
- Numer. Math.* Numerische Mathematik. (Berlin-Göttingen-Heidelberg)

ABBREVIATIONS OF NAMES OF JOURNALS

- Nuovo Cimento. Il Nuovo Cimento.* (Bologna)
- O.N.E.R.A. Publ. Office National d'Études et de Recherches Aéronautiques.* Publication. (Paris)
- Observatory.* The Observatory. A Review of Astronomy. (Hailham)
- Onde Élec.* L'Onde Électrique. (Paris)
- Operations Res.* Operations Research. The Journal of the Operations Research Society of America. (Baltimore, Md.) (Sometimes abbreviated as *OR* in *Math. Reviews*)
- Optica Acta.* Optica Acta. (London)
- Optik.* Optik. Zeitschrift für das gesamte Gebiet der Licht- und Elektronenoptik. (Stuttgart)
- Optika i Spektrosk.* Akademija Nauk SSSR. Optika i Spektroskopija. (Moscow-Leningrad) (Translated as: *Optics and Spectrosc.*)
- Osaka Math. J.* Osaka Mathematical Journal. (Osaka)
- Österreich. Akad. Wiss. Math.-Nat. Kl. S.-B. II.* Österreichische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. Abteilung II. Mathematik, Astronomie, Physik, Meteorologie und Technik. (Vienna)
- Österreich. Ing.-Arch.* Österreichisches Ingenieur-Archiv. (Vienna)
- Österreich. Ing. Z.* Österreichische Ingenieur Zeitschrift. Zeitschrift des Österreichischen Ingenieur- und Architekten-Vereins. (Vienna)
- Pacific J. Math.* Pacific Journal of Mathematics. (Berkeley, Calif.)
- Period. Mat.* Periodico di Matematiche. (Bologna)
- Perm. Gos. Univ. Učen. Zap. Mat.* Ministerstvo Vysshego i Srednego Special'nogo Obrazovaniya RSFSR. Permskii Gosudarstvennyi Universitet im. A. M. Gor'kogo. Učenyje Zapiski. Matematika. (Perm)
- Philos. Mag.* The Philosophical Magazine. A Journal of Theoretical, Experimental and Applied Science. (London)
- Philos. Rev.* The Philosophical Review. (Ithaca, N.Y.)
- Philos. Sci.* Philosophy of Science. (Baltimore, Md.)
- Philos. Trans. Roy. Soc. London Ser. A.* Philosophical Transactions of the Royal Society of London. Series A. Mathematical and Physical Sciences. (London)
- Phys. Fluids.* The Physics of Fluids. (New York)
- Phys. Lett.* Physics Letters. (Amsterdam)
- Phys. Norveg.* Physica Norvegica. (Oslo)
- Phys. Rev.* The Physical Review. (New York)
- Phys. Rev. Lett.* Physical Review Letters. (New York)
- Physica.* Physica. (Amsterdam)
- Polaka Biblio. Analit. Mech.* Polaka Akademia Nauk. Instytut Podstawowych Problemów Techniki. Polaka Bibliografia Analityczna. Mechanika. Polish Scientific Abstracts. Mechanics. (Warsaw)
- Portugal. Math.* Portugaliae Mathematica. (Lisbon)
- Portugal. Phys.* Portugaliae Physica. (Lisbon)
- Práce Brn. Českoslov. Akad. Věd.* Práce Brněnské Základny Československé Akademie Věd. Acta Academiae Scientiarum Českoslovenicae Basia Brunensis. (Brno)
- Prace Mat. Roczniki Polskiego Towarzystwa Matematycznego. Seria I.* Prace Matematyczne. (Warsaw)
- Prakt. Akad. Athēnōn.* Πρακτικά τῆς Ἀκαδημίας Ἀθηνῶν. (Athens)
- Pril. Mat. Meh.* Akademija Nauk SSSR. Otdelenie Tehničeskikh Nauk. Institut Mehaniki. Prikladnaja Matematika i Mehanika. (Moscow) (Translated as: *J. Appl. Math. Mech.*)
- Prikladna Meh.* Akademija Nauk Ukraїns'koї RSR. Institut Mehaniki. Prikladna Mehanika. (Kiev) (Formerly listed as: *Akad. Nauk Ukraїn. RSR Pril. Meh.*)
- Problemy Kibernet.* Problemy Kibernetiki. (Moscow)
- Problemy Peredači Informacii.* Akademija Nauk SSSR. Laboratorija Sistem Peredači Informacii. Problemy Peredači Informacii. (Moscow)
- Proc. Amer. Math. Soc.* Proceedings of the American Mathematical Society. (Providence, R.I.)
- Proc. Amer. Philos. Soc.* Proceedings of the American Philosophical Society Held at Philadelphia for Promoting Useful Knowledge. (Philadelphia, Pa.)
- Proc. Cambridge Philos. Soc.* Proceedings of the Cambridge Philosophical Society. (Cambridge, England)
- Proc. Edinburgh Math. Soc.* Proceedings of the Edinburgh Mathematical Society. (Edinburgh)
- Proc. Edinburgh Math. Soc. Edinburgh Math. Notes.* Proceedings of the Edinburgh Mathematical Society. Edinburgh Mathematical Notes. (Edinburgh) (Formerly: *Edinburgh Math. Notes*)
- Proc. Egyptian Acad. Sci.* Proceedings of the Egyptian Academy of Sciences. (Cairo)
- Proc. Fac. Engrg. Keio Univ.* Proceedings of the Fujihara Memorial Faculty of Engineering. Keio University. (Tokyo)
- Proc. Glasgow Math. Assoc.* Proceedings of the Glasgow Mathematical Association. (Glasgow)
- Proc. IEEE.* Proceedings of the IEEE. (New York) (Formerly: *Proc. IRE*)
- Proc. Indian Acad. Sci. Sect. A.* Proceedings of the Indian Academy of Sciences. Section A. (Bangalore)
- Proc. Indian Acad. Sci. Sect. B.* Proceedings of the Indian Academy of Sciences. Section B. (Bangalore)
- Proc. Indiana Acad. Sci.* Proceedings of the Indiana Academy of Science. (Indianapolis, Ind.)
- Proc. Inst. Elec. Engrs. A.* The Proceedings of the Institution of Electrical Engineers. Part A. Power Engineering. (London)
- Proc. Inst. Elec. Engrs. B.* The Proceedings of the Institution of Electrical Engineers. Part B. Radio and Electronic Engineering (including Communication Engineering). (London)
- Proc. Inst. Elec. Engrs. C.* The Proceedings of the Institution of Electrical Engineers. Part C. Monographs. (London)
- Proc. Inst. Mech. Engrs.* Proceedings of the Institution of Mechanical Engineers. (London)
- Proc. Inst. Statist. Math.* The Proceedings of the Institute of Statistical Mathematics. (Tokyo)
- Proc. Iowa Acad. Sci.* Proceedings of the Iowa Academy of Science. (Des Moines, Iowa)
- Proc. Iraqi Sci. Soc.* Proceedings of the Iraqi Scientific Societies. (Baghdad)
- Proc. IRE.* Proceedings of the IRE. A Journal of Communications and Electronic Engineering. (New York) (Continued as: *Proc. IEEE*)
- Proc. Japan Acad.* Proceedings of the Japan Academy. (Tokyo)
- Proc. London Math. Soc.* Proceedings of the London Mathematical Society. (London)
- Proc. Math. Phys. Soc. Egypt.* Proceedings of the Mathematical and Physical Society of Egypt. (Cairo) (Continued as: *Proc. Math. Phys. Soc. U.A.R.*)
- Proc. Math. Phys. Soc. U.A.R.* Proceedings of the Mathematical and Physical Society of U.A.R. (Cairo) (Formerly: *Proc. Math. Phys. Soc. Egypt*)

ABBREVIATIONS OF NAMES OF JOURNALS

- Proc. Nat. Acad. Sci. U.S.A.* Proceedings of the National Academy of Sciences of the United States of America. (Washington, D.C.)
- Proc. Nat. Inst. Sci. India Part A.* Proceedings of the National Institute of Sciences of India. Part A. Physical Sciences. (New Delhi)
- Proc. Pakistan Statist. Assoc.* Proceedings of the Pakistan Statistical Association. (Lahore)
- Proc. Phys. Soc.* Proceedings of the Physical Society. (London)
- Proc. Roy. Irish Acad. Sect. A.* Proceedings of the Royal Irish Academy. Section A. (Dublin)
- Proc. Roy. Soc. Edinburgh Sect. A.* Proceedings of the Royal Society of Edinburgh. Section A. (Mathematical and Physical Sciences). (Edinburgh)
- Proc. Roy. Soc. London Ser. A.* Proceedings of the Royal Society of London. Series A. Mathematical and Physical Sciences. (London) (Continued as: *Proc. Roy. Soc. Ser. A*)
- Proc. Roy. Soc. Ser. A.* Proceedings of the Royal Society. Series A. Mathematical and Physical Sciences. (London) (Formerly: *Proc. Roy. Soc. London Ser. A*)
- Proc. Vibration Problems.* Polish Academy of Sciences. Institute of Basic Technical Problems. Proceedings of Vibration Problems. (Warsaw)
- Progr. Theoret. Phys.* Progress of Theoretical Physics. (Kyoto)
- Psychometrika.* Psychometrika. A Journal Devoted to the Development of Psychology as a Quantitative Rational Science. (Chapel Hill, N.C.)
- Publ. Astronom. Soc. Pacific.* Publications of the Astronomical Society of the Pacific. (San Francisco, Calif.)
- Publ. Fac. Sci. Univ. Masaryk.* Spisy Vydávané Přírodovědeckou Fakultou Masarykovy University. Trudy Estestvenno-Istoricheskogo Fakul'teta Universiteta im. T. G. Masarika. Publications de la Faculté des Sciences de l'Université Masaryk. (Brno) (Continued as: *Spisy Přírod. Fak. Univ. Brno*)
- Publ. Inst. Math. (Beograd).* Institut Mathématique. Publications de l'Institut Mathématique. Nouvelle Série. (Belgrade) (Formerly: *Acad. Serbe Sci. Publ. Inst. Math.*)
- Publ. Inst. Statist. Univ. Paris.* Publications de l'Institut de Statistique de l'Université de Paris. (Paris)
- Publ. Math. Debrecen.* Publicationes Mathematicae. (Debrecen)
- Publ. Sci. Tech. Ministère de l'Air (Paris).* Publications Scientifiques et Techniques du Ministère de l'Air. (Paris)
- Publ. Sci. Tech. Ministère de l'Air (Paris) Notes Tech.* Publications Scientifiques et Techniques du Ministère de l'Air. Notes Techniques. (Paris)
- Publ. Sci. Univ. Alger Sér. A.* Publications Scientifiques de l'Université d'Alger. Série A. Sciences Mathématiques. (Algiers)
- Publ. Sémin. Géom. Univ. Neuchâtel.* Publications du Séminaire de Géométrie de l'Université de Neuchâtel. (Neuchâtel)
- Quart. Appl. Math.* Quarterly of Applied Mathematics. (Providence, R.I.)
- Quart. J. Math. Oxford Ser.* The Quarterly Journal of Mathematics, Oxford Second Series. (Oxford)
- Quart. J. Mech. Appl. Math.* The Quarterly Journal of Mechanics and Applied Mathematics. (Oxford)
- Quart. J. Roy. Astronom. Soc.* The Quarterly Journal of the Royal Astronomical Society. (London)
- Quart. Rev. Sci. Publ.* Polish Academy of Sciences. Distribution Centre for Scientific Publications. Quarterly Review of Scientific Publications. (Warsaw)
- RAAG Newsletter.* RAAG Newsletter. (Tokyo)
- RAAG Res. Notes.* RAAG Research Notes. (Tokyo)
- Rad Jugoslav. Akad. Znan. Umjet. Odjel Mat. Fis. Tehn. Nauke.* Rad Jugoslavenake Akademije Znanosti i Umjetnosti. Odjel za Matematičke, Fizičke i Tehničke Nauke. (Zagreb)
- Radio Engrg. and Electronics.* Radio Engineering and Electronics. (Translation of *Radiotekhnika i Elektronika*, a U.S.S.R. Academy of Sciences Publication). (New York) (Translation of *Radiotekhn. i Elektron.*)
- Radiotekhn. i Elektron.* Akademija Nauk SSSR. Radiotekhnika Elektronika. (Moscow) (Translated as: *Radio Engrg. and Electronics*)
- Rasprostr. Radiovoln i Ionosfera.* Akademija Nauk SSSR. Trudy Instituta Zemnogo Magnetizma, Ionosfery i Rasprostraneniya Radiovoln. Rasprostranenie Radiovoln i Ionosfera. (Moscow)
- RCA Rev.* RCA Review. (New York)
- Rech. Aéro.* La Recherche Aéronautique. (Paris)
- Rend. Accad. Naz. dei XL.* Rendiconti, Accademia Nazionale dei XL. (Rome)
- Rend. Accad. Sci. Fis. Mat. Napoli.* Società Nazionale di Napoli. Rendiconto dell'Accademia delle Scienze Fisiche e Matematiche. (Naples)
- Rend. Circ. Mat. Palermo.* Rendiconti del Circolo Matematico di Palermo. (Palermo)
- Rend. Mat. e Appl.* Università di Roma. Istituto Nazionale di Alta Matematica. Rendiconti di Matematica e delle sue Applicazioni. (Rome)
- Rend. Sem. Fac. Sci. Univ. Cagliari.* Rendiconti del Seminario della Facoltà di Scienze della Università di Cagliari. (Cagliari)
- Rend. Sem. Mat. Fis. Milano.* Rendiconti del Seminario Matematico e Fisico di Milano. (Milan)
- Rend. Sem. Mat. Univ. Padova.* Rendiconti del Seminario Matematico dell'Università di Padova. (Padova)
- Rep. Inst. Sci. Tech. Univ. Tokyo.* The Reports of the Institute of Science and Technology, University of Tokyo. (Tokyo)
- Rep. Lib. Arts Sci. Fac. Shizuoka Univ. Sect. Nat. Sci.* Reports of Liberal Arts and Science Faculty. Shizuoka University. Section Natural Science. (Shizuoka) (Formerly: *Nat. Sci. Rep. Lib. Arts Sci. Fac. Shizuoka Univ.*)
- Rep. Res. Inst. Appl. Mech. Kyushu Univ.* Reports of Research Institute for Applied Mechanics. Kyushu University. (Fukuoka)
- Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* Reports of Statistical Application Research, Union of Japanese Scientists and Engineers. (Tokyo)
- Repúb. Venezuela Bol. Acad. Ci. Fis. Mat. Nat.* República de Venezuela. Boletín de la Academia de Ciencias Físicas, Matemáticas y Naturales. (Caracas)
- Res. Bull. Panjab Univ.* Research Bulletin of the Panjab University. (Hoshiarpur)
- Res. Rep. Nagaoka Tech. College.* Research Reports of the Nagaoka Technical College. (Nagaoka)
- Rev. Acad. Ci. Madrid.* Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales de Madrid. (Madrid)
- Rev. Acad. Ci. Zaragoza.* Revista de la Academia de Ciencias Exactas, Físico-Químicas y Naturales de Zaragoza. (Zaragoza)
- Rev. Acad. Colombiana Ci. Exact. Fis. Nat.* Revista de la Academia Colombiana de Ciencias Exactas, Físicas y Naturales. (Bogotá)
- Rev. Ci. (Lima).* Revista de Ciencias. (Lima)
- Rev. Fac. Ci. Univ. Coimbra.* Revista de Faculdade de Ciências da Universidade de Coimbra. (Coimbra)
- Rev. Fac. Sci. Univ. Istanbul Sér. A.* (Istanbul) See *Istanbul Univ. Fen. Fak. Mec. Ser. A.*
- Rev. Fac. Sci. Univ. Istanbul Sér. C.* (Istanbul) See *Istanbul Univ. Fen. Fak. Mec. Ser. C.*

ABBREVIATIONS OF NAMES OF JOURNALS

- Rev. Franç. Traitement Information Chiffres.* Revue Française de Traitement de l'Information. Chiffres. (Paris) (Formerly: *Chiffres*)
- Rev. Gén. Sci. Pures Appl.* Revue Générale des Sciences Pures et Appliquées et Bulletin de l'Association Française pour l'Avancement des Sciences. (Paris)
- Rev. Histoire Sci. Appl.* Revue d'Histoire des Sciences et de leurs Applications. (Paris)
- Rev. Inst. Internat. Statist.* Revue de l'Institut International de Statistique. Review of the International Statistical Institute. (The Hague)
- Rev. Mat. Ouyana.* Universidad Nacional de Ouyo. Facultad de Ciencias. Revista Matemática Cuyana. (San Luis)
- Rev. Mat. Elem.* Revista de Matemáticas Elementales. (Bogotá)
- Rev. Mat. Hisp.-Amer.* Revista Matemática Hispano-Americana. (Madrid)
- Rev. Math. Pures Appl.* Académie de la République Populaire Roumaine. Revue de Mathématiques Pures et Appliquées. (Bucharest)
- Rev. Math. Spécial.* Revue de Mathématiques Spéciales. (Paris)
- Rev. Méc. Appl.* Académie de la République Populaire Roumaine. Revue de Mécanique Appliquée. (Bucharest)
- Rev. Mexicana Fis.* Revista Mexicana de Física. (Mexico, D.F.)
- Rev. Modern Phys.* Reviews of Modern Physics. (New York)
- Rev. Optique.* Revue d'Optique Théorique et Instrumentale. (Paris)
- Rev. Sci. La Revue Scientifique.* Revue Trimestrielle Illustrée. (Paris) (Continued as: *Nucleus*)
- Rev. Un. Mat. Argentina.* Revista de la Unión Matemática Argentina. (Buenos Aires)
- Rice Univ. Studies.* Rice University Studies. (Houston, Tex.)
- Ricerca (Napoli).* La Ricerca. Rivista di Matematiche Pure ed Applicate. (Naples)
- Ricerche Mat.* Ricerche di Matematica. (Naples)
- Riv. Mat. Univ. Parma.* Rivista di Matematica della Università di Parma. (Parma)
- Rjazansk. Gos. Ped. Inst. Učen. Zap.* Rjazanskii Gosudarstvennyi Pedagogičeskii Institut. Učenoje Zapiski. (Ryazan)
- Rostov-na-Donu Gos. Ped. Inst. Fiz.-Mat. Fak. Učen. Zap.* Rostovskii-na-Donu Gosudarstvennyi Pedagogičeskii Institut. Fiziko-Matematičeskii Fakultet. Učenoje Zapiski. (Rostov-on-Don)
- Rozprawy Československé Akad. Věd.* Rozprawy Československé Akademie Věd. (Prague)
- Rozprawy Inst. Polska Akademia Nauk.* Instytut Podstawowych Problemów Techniki. Rozprawy Inżynierskie. (Warsaw)
- Rozprawy Mat. Polska Akademia Nauk.* Instytut Matematyczny. Rozprawy Matematyczne. (Warsaw)
- Russian Math. Surveys.* Russian Mathematical Surveys. (A translation of the survey articles and of selected biographical articles in *Uspehi Matematičeskij Nauk*). (London) (Translation of *Uspehi Mat. Nauk*)
- RŽ Astronom. Geod.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyi Žurnal. Astronomija Geodezija Referaty. (Moscow)
- RŽMat.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyi Žurnal. Matematika Referaty. (Moscow)
- RŽMek.* Akademija Nauk SSSR. Institut Naučnoj Informacii. Referativnyi Žurnal. Mehanika Referaty. (Moscow)
- SA.* Science Abstracts. Section A. Physics Abstracts. (London)
- Sankhyā.* Sankhyā. The Indian Journal of Statistics. (Calcutta) (Continued as: *Sankhyā Ser. A* and *Sankhyā Ser. B*)
- Sankhyā Ser. A.* Sankhyā. The Indian Journal of Statistics. Series A. (Calcutta) (Formerly: *Sankhyā*)
- Sankhyā Ser. B.* Sankhyā. The Indian Journal of Statistics. Series B. (Calcutta) (Formerly: *Sankhyā*)
- S.-B. Berlin. Math. Ges.* Sitzungsberichte der Berliner Mathematischen Gesellschaft. (Berlin)
- S.-B. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* Sitzungsberichte der Deutschen Akademie der Wissenschaften zu Berlin. Klasse für Mathematik, Physik und Technik. (Berlin)
- S.-B. Finn. Akad. Wiss.* Sitzungsberichte der Finnischen Akademie der Wissenschaften. Proceedings of the Finnish Academy of Science and Letters. (Helsinki)
- S.-B. Heidelberger Akad. Wiss. Math.-Nat. Kl.* Sitzungsberichte der Heidelberger Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. (Heidelberg)
- S.-B. Phys.-Med. Soc. Erlangen.* Sitzungsberichte der physikalisch-medizinischen Societät zu Erlangen. (Erlangen)
- St. Vysoké. Učen. Tech. Brno.* Sborník Vysokého Učen. Technického v Brně. (Brno)
- Schr. Math. Inst. Univ. Münster.* Schriftenreihe des Mathematischen Instituts der Universität Münster. (Münster)
- Schweiz. Z. Vermessg. Kulturtech. Photogr.* Schweizerische Zeitschrift für Vermessung, Kulturtechnik und Photogrammetrie. Revue Technique Suisse des Mensurations, du Génie Rural et de Photogrammétrie. (Winterthur)
- Schweiz. Z. Volkswirtschaft Statist.* Schweizerische Zeitschrift für Volkswirtschaft und Statistik. Revue Suisse d'Economie Politique et de Statistique. (Basel)
- Sci. Abstracts Sect. A.* Science Abstracts. Section A. Physics Abstracts. (London) (Usually abbreviated *SA* in the text of *Math. Reviews*)
- Sci. Abstracts Sect. B.* Science Abstracts. Section B. Electrical Engineering Abstracts. (London)
- Sci. Amer.* Scientific American. (New York)
- Sci. Information Notes.* Scientific Information Notes. (Washington, D.C.)
- Sci. Monthly.* The Scientific Monthly. (Washington, D.C.)
- Sci. Papers Coll. Gen. Ed. Univ. Tokyo.* Scientific Papers of the College of General Education. University of Tokyo. (Tokyo) See *Sci. Papers Coll. Gen. Ed. Univ. Tokyo*.
- Sci. Papers Coll. Gen. Ed. Univ. Tokyo.* Scientific Papers of the College of General Education. University of Tokyo. (Tokyo) (Formerly listed as: *Sci. Papers Coll. Gen. Ed. Univ. Tokyo*)
- Sci. Papers Inst. Phys. Chem. Res.* Scientific Papers of the Institute of Physical and Chemical Research. (Tokyo) (Formerly: *J. Sci. Res. Inst. Tokyo*)
- Sci. Proc. Roy. Dublin Soc.* The Scientific Proceedings of the Royal Dublin Society. (Dublin) (Continued as: *Sci. Proc. Roy. Dublin Soc. Ser. A*)
- Sci. Proc. Roy. Dublin Soc. Ser. A.* The Scientific Proceedings of the Royal Dublin Society. Series A. (Dublin) (Formerly: *Sci. Proc. Roy. Dublin Soc.*)
- Sci. Proc. Roy. Dublin Soc. Ser. B.* The Scientific Proceedings of the Royal Dublin Society. Series B. (Dublin) (Formerly: *Econ. Proc. Roy. Dublin Soc.*)
- Sci. Rep. Kagoshima Univ.* Science Reports of the Kagoshima University. (Kagoshima)
- Sci. Rep. Kanazawa Univ.* The Science Reports of the Kanazawa University. (Kanazawa)
- Sci. Rep. Res. Inst. Theoret. Phys. Hiroshima Univ.* Scientific Reports of the Research Institute for Theoretical Physics, Hiroshima University. (Hiroshima)
- Sci. Rep. Res. Inst. Tôhoku Univ. Ser. A.* The Science Reports of the Research Institutes. Tôhoku University. Series A. (Physics, Chemistry and Metallurgy). (Sendai)

ABBREVIATIONS OF NAMES OF JOURNALS

- Sci. Rep. Saitama Univ. Ser. A.* The Science Reports of the Saitama University. Series A. Mathematics, Physics and Chemistry. (Urawa)
- Sci. Rep. Tôhoku Univ. Ser. I.* The Science Reports of the Tôhoku University. First Series. (Physics, Chemistry, Astronomy). (Sendai)
- Sci. Rep. Tokyo Kyoiku Daigaku Sect. A.* Science Reports of the Tokyo Kyoiku Daigaku. Section A. (Tokyo)
- Sci. Rep. Yokohama Nat. Univ. Sect. I.* Science Reports of the Yokohama National University. Section I. Mathematics, Physics. (Yokohama)
- Sci. Sinica.* Scientia Sinica. (Peking)
- Scripta Math.* Scripta Mathematica. A Quarterly Journal Devoted to the Philosophy, History, and Expository Treatment of Mathematics. (New York)
- SIAM Rev.* SIAM Review. A Publication of the Society for Industrial and Applied Mathematics. (Philadelphia, Pa.)
- Sibirsk. Mat. Ž.* Sibirskii Matematicheskii Zhurnal. (Moscow)
- Simon Stevin.* Simon Stevin. Wis-en Natuurkundig Tijdschrift. (Groningen-Djakarta)
- Skand. Aktuarietidskr.* Skandinavisk Aktuarietidskrift. (Uppsala)
- Skr. Norske Vid.-Akad. Oslo I.* Skrifter Utgitt av det Norske Videnskaps-Akademi i Oslo. I. Mat.-Naturv. Klasse. (Oslo)
- Slovenska Akad. Znan. Umet. Razred Mat. Fiz. Tehn. Vede Ser. A* Razprave. Slovenska Akademija Znanosti in Umetnosti. Razred za Matematične, Fizikalne in Tehnične Vede. Serija A: Matematične, Fizikalne in Kemične Vede. Razprave. Academia Scientiarum et Artium Slovenica. Classis III: Mathematica, Physica, Technica. Series A: Mathematica, Physica, Chemica. Dissertationes. (Ljubljana)
- Smithsonian Contrib. to Astrophys.* Smithsonian Contributions to Astrophysics. (Washington, D.C.)
- Soc. Actuar. Trans.* Society of Actuaries. Transactions. (Chicago, Ill.)
- Soc. Parana. Mat. Anuário.* Anuário da Sociedade Paranaense de Matemática. (Curitiba)
- Soc. Sci. Fenn. Comment. Phys.-Math.* Societas Scientiarum Fennica. Commentationes Physico-Mathematicae. (Helsinki)
- Soc. Sci. Lettres Lódz Bull. Cl. III.* Bulletin de la Société des Sciences et des Lettres de Lódz. Classe III des Sciences Mathématiques et Naturelles. (Lódz)
- Soobšč. Akad. Nauk Gruz. SSR.* Soobščeniia Akademii Nauk Gruzinskoi SSR. (Tiflis)
- South African J. Sci.* South African Journal of Science. Suid-Afrikaanse Joernaal van Wetenskap. (Johannesburg)
- Soviet Astronom. AJ.* Soviet Astronomy. AJ. (A translation of *Astronomicheskii Zhurnal* of the Academy of Sciences of the USSR). (New York) (Translation of *Astronom. Ž.*)
- Soviet Math. Dokl.* Soviet Mathematics. Doklady. (A translation of the entire pure mathematics section of *Doklady Akademii Nauk SSSR*). (Providence, R.I.) (Translation of mathematics section of *Dokl. Akad. Nauk SSSR*)
- Soviet Physics Acoust.* Soviet Physics. Acoustics. (A translation of *Akusticheskii Zhurnal* of the Academy of Sciences of the USSR). (New York) (Translation of *Akust. Ž.*)
- Soviet Physics Cryst.* Soviet Physics. Crystallography. (A translation of the journal *Kristallografiia* of the Academy of Sciences of the USSR). (New York) (Translation of *Kristallografiia*)
- Soviet Physics Dokl.* Soviet Physics. Doklady. (A translation of the physics sections of *Doklady Akademii Nauk SSSR*). (New York) (Translation of physics sections of *Dokl. Akad. Nauk SSSR*)
- Soviet Physics JETP.* Soviet Physics. JETP. (A translation of *Ž. Eksperimental'noi i Teoreticheskoi Fiziki* of the USSR). (New York) (Translation of *Ž. Eksper. Teoret. Fiz.*)
- Soviet Physics Solid State.* Soviet Physics. Solid State. (A translation of the journal *Fizika Tverdogo Tela* of the Academy of Sciences of the USSR). (New York) (Translation of *Fiz. Tverd. Tela*)
- Soviet Physics Tech. Phys.* Soviet Physics. Technical Physics. (A translation of *Zhurnal Tehnicheskoi Fiziki* of the Academy of Sciences of the USSR). (New York) (Translation of *Ž. Tehn. Fiz.*)
- Soviet Physics Uspekhi.* Soviet Physics. Uspekhi. (A translation of *Uspekhi Fizicheskikh Nauk* (Advances in the Physical Sciences) of the Academy of Sciences, U.S.S.R.). (New York) (Translation of *Uspekhi Fiz. Nauk.*)
- Spisy Pfirod. Fak. Univ. Brno.* Spisy Pfirodovědecké Fakulty University v Brně. Trudy Estestvenno-Istoricheskogo Fakul'teta Universiteta v g. Brno. Publications de la Faculté des Sciences de l'Université à Brno. (Brno) (Formerly: *Publ. Fac. Sci. Univ. Masaryk*)
- SRI J.* SRI Journal. (Menlo Park, Calif.) (Formerly listed as: *SRI Journal*)
- SRI Journal.* SRI Journal. (Menlo Park, Calif.) See *SRI J.*
- Statistica (Bologna).* Statistica. (Bologna)
- Stroje na Zpracování Informací.* Stroje na Zpracování Informací. (Prague)
- Studia Logica.* Polska Akademia Nauk. Komitet Filozoficzny. Studia Logica. (Warsaw)
- Studia Math.* Polska Akademia Nauk. Studia Mathematica. (Warsaw)
- Studia Univ. Babeş-Bolyai Ser. I Math. Phys.* Studia Universitatis Babeş-Bolyai. Series I. Mathematica Physica. (Cluj)
- Sudhoffs Arch.* Sudhoffs Archiv für Geschichte der Medizin und der Naturwissenschaften. (Wiesbaden)
- Sûgaku.* Sûgaku. (Tokyo)
- Summa Brasil. Math.* Summa Brasiliensis Mathematicae. (Rio de Janeiro)
- Svenska Aeroplan A. B. Tech. Notes.* SAAB Aircraft Company. Svenska Aeroplan Aktiebolaget. Technical Notes. (Linköping)
- Tartu Riikl. Ül. Toimetised.* Tartu Riikliku Ülikooli Toimetised. Učeny Zapiski Tartuskogo Gosudarstvennogo Universiteta. Matematika-Loodusteaduskonna Tööd. Trudy Estestvenno-Matematicheskogo Fakulteta. (Tallin)
- Tashkent. Gos. Ped. Inst. Učen. Zap.* Ministerstvo Prosvěsheniia Uzbekakoi SSR. Tashkentakii Gosudarstvennyi Pedagogicheskii Institut im. Nizami. Učeny Zapiski. Fiziko-Matematicheskii. (Tashkent)
- Tech. Rep. Engrg. Res. Inst. Kyoto Univ.* Technical Reports of the Engineering Research Institute. Kyoto University. (Kyoto)
- Tech. Transl.* Technical Translations. (Washington, D.C.)
- Technometrics.* Technometrics. A Journal of Statistics for the Physical, Chemical and Engineering Sciences. (Princeton, N.J.)
- Tensor.* Tensor. New Series. (Sapporo)
- Teor. Veroyatnost. i Primenen.* Akademija Nauk SSSR. Teoriya Veroyatnostei i ee Primeneniia. (Moscow) (Translated as: *Theor. Probability Appl.*)
- Thalès.* Thalès. Recueil Annuel des Travaux de l'Institut d'Histoire des Sciences et des Techniques de l'Université de Paris. (Paris)
- Theor. Probability Appl.* Theory of Probability and its Applications. (An English translation of the Soviet journal *Teoriya Veroyatnostei i ee Primeneniia*). (Philadelphia, Pa.) (Translation of *Teor. Veroyatnost. i Primenen.*)
- Theoria (Lund).* Theoria. A Swedish Journal of Philosophy and Psychology. (Lund)
- Tôhoku Math. J.* The Tôhoku Mathematical Journal. (Sendai)
- Tomsk. Gos. Univ. Učen. Zap.* Tomskii Gosudarstvennyi Universitet im. V. V. Kuibysheva. Učeny Zapiski. (Tomsk)
- Topology.* Topology. An International Journal of Mathematics. (Oxford)

ABBREVIATIONS OF NAMES OF JOURNALS

- Trabajos Estadist.* *Trabajos de Estadística.* (Madrid)
- Trans. Amer. Inst. Elec. Engrs.* Transactions of the American Institute of Electrical Engineers. (New York)
- Trans. Amer. Math. Soc.* Transactions of the American Mathematical Society. (Providence, R.I.)
- Trans. Amer. Philos. Soc.* Transactions of the American Philosophical Society Held at Philadelphia for Promoting Useful Knowledge. (Philadelphia, Pa.)
- Trans. ASME Ser. A. J. Engrg. Power.* Transactions of the ASME. Series A. Journal of Engineering for Power. (New York)
- Trans. ASME Ser. B. J. Engrg. Indust.* Transactions of the ASME. Series B. Journal of Engineering for Industry. (New York)
- Trans. ASME Ser. E. J. Appl. Mech.* Transactions of the ASME. Series E. Journal of Applied Mechanics. (New York) (Formerly: *J. Appl. Mech.*)
- Trans. Faraday Soc.* Transactions of the Faraday Society. (London)
- Trans. Roy. Soc. Edinburgh.* Transactions of the Royal Society of Edinburgh. (Edinburgh)
- Trans. Roy. Soc. South Africa.* Transactions of the Royal Society of South Africa. (Cape Town)
- Trav. Soc. Sci. Lett. Wrocław Ser. B.* *Travaux de la Société des Sciences et des Lettres de Wrocław. Série B.* (Wrocław)
- Trudy Akad. Nauk Litov. SSR Ser. B.* Lietuvos TSR Mokslų Akademijos Darbai. Serija B. Akademii Nauk Litovskoi SSR. Trudy. Serija B. (Vilna)
- Trudy Inst. Ist. Estest. Tehn.* Akademija Nauk SSSR. Trudy Instituta Istori Estestvoznaniya i Tehniki. (Moscow)
- Trudy Inst. Mašinoved. Sem. Točn. Mašinostr. Priborostr.* Akademija Nauk SSSR. Trudy Instituta Mašinovedeniya. Seminar po Točnosti v Mašinostroenii i Priboroostroenii. (Moscow)
- Trudy Inst. Teoret. Astronom.* Akademija Nauk SSSR. Trudy Instituta Teoretičeskoi Astronomii. (Moscow)
- Trudy Kazan. Aviacion. Inst. Mat. i Meh.* Trudy Kazanskogo Aviacionnogo Instituta. Matematika i Mehanika. (Kazan)
- Trudy Leningrad. Tehn. Inst. Trudy Kafedr. Meh. Fak.* Ministerstvo Vysshego Obrazovaniya SSSR. Trudy Leningradskogo Tekhnologičeskogo Instituta im. Lensovet. Trudy Kafedr. Mehaničeskogo Fakul'teta. (Leningrad)
- Trudy Mat. Inst. Steklov.* Akademija Nauk Sojuz. Sovetskikh Socialističeskikh Respublik. Trudy Matematičeskogo Instituta im. V. A. Steklova. (Moscow-Leningrad)
- Trudy Samarkand. Gos. Univ. Mat.* Ministerstvo Vysshego i Srednego Special'nogo Obrazovaniya UzSSR. Trudy Samarkandakogo Gosudarstvennogo Universiteta im. A. Navoi. Matematika. (Samarkand)
- Trudy Sem. Vektor. Tenzor. Anal.* Trudy Seminara po Vektornomu i Tenzornomu Analizu s ih Prilozheniyami k Geometrii, Mehanike i Fiziki. (Moscow)
- Trudy Tashkent. Gos. Univ.* Trudy Tashkentakogo Gosudarstvennogo Universiteta im. V. I. Lenina. Matematika. (Tashkent)
- Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat. Geom. Sb.* Trudy Tomakogo Gosudarstvennogo Universiteta im. V. V. Kužbyčeva. Serija Mehaniko-Matematičeskaja. Geometričeskii Sbornik. (Tomsk)
- Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR.* Akademija Nauk Gruzinskoi SSR. Trudy Vyčislitel'nogo Centra. (Tiflis)
- Tul'sk. Gos. Ped. Inst. Učen. Zap. Fiz.-Mat. Nauk.* Tul'skii Gosudarstvennyi Pedagogičeskii Institut im. L. N. Tolstogo. Učeny Zapiski. Fiziko-Matematičeskije Nauki. (Tula)
- U.S.S.R. Comput. Math. and Math. Phys.* U.S.S.R. Computational Mathematics and Mathematical Physics. (Oxford) (Translation of *Ž. Vyčisl. Mat. i Mat. Fiz.*)
- Učen. Zap. Borisoglebsk. Gos. Ped. Inst.* Ministerstvo Prosvetšeniya RSFSR. Učeny Zapiski. Borisoglebskogo Gosudarstvennogo Pedagogičeskogo Instituta. (Borisoglebsk)
- Učen. Zap. Karel. Ped. Inst. Ser. Fiz.-Mat. Nauk.* Ministerstvo Prosvetšeniya RSFSR. Karel'skii Pedagogičeskii Institut. Učeny Zapiski. Serija Fiziko-Matematičeskikh Nauk. (Petrozavodsk)
- Ukrain. Mat. Ž.* Akademija Nauk Ukrainskoi SSR. Institut Matematiki. Ukrainskii Matematičeskii Žurnal. (Kiev)
- Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz.* Univerzitet u Beogradu. Publikacije Elektrotehničkog Fakulteta. Serija Matematika i Fizika. (Belgrade)
- Univ. Bergen Arbok Naturvit. Rekke.* Universitet i Bergen Arbok. Naturvitenskapelig Rekke. (Bergen) (Continued as: *Arbok Univ. Bergen Mat.-Nat. Ser.*)
- Univ. Buenos Aires Contrib. Ci. Ser. Fis.* Universidad de Buenos Aires. Facultad de Ciencias Exactas, Físicas y Naturales. Contribuciones Científicas. Serie Física. (Buenos Aires)
- Univ. Buenos Aires Contrib. Ci. Ser. Mat.* Universidad de Buenos Aires. Facultad de Ciencias Exactas y Naturales. Contribuciones Científicas. Serie Matemática. (Buenos Aires)
- Univ. California Publ. Math.* University of California. Publications in Mathematics. (Berkeley-Los Angeles, Calif.)
- Univ. California Publ. Statist.* University of California. Publications in Statistics. (Berkeley-Los Angeles, Calif.)
- Univ. Central Venezuela Bol. Fac. Ing.* Universidad Central de Venezuela. Boletín de la Facultad de Ingeniería. (Caracas)
- Univ. e Politec. Torino Rend. Sem. Mat.* Università e Politecnico di Torino. Rendiconti del Seminario Matematico (già "Conferenze di Fisica e di Matematica"). (Turin)
- Univ. Illinois Bull. Engrg. Exper. Station Bull.* University of Illinois. Bulletin. Engineering Experiment Station Bulletin. (Urbana, Ill.)
- Univ. Lisboa Revista Fac. Ci. A.* Universidade de Lisboa. Revista da Faculdade de Ciências. 2.ª Série. A. Ciências Matemáticas. (Lisbon)
- Univ. Madrid Publ. Sec. Mat. Fac. Ci.* Universidad de Madrid. Publicaciones de la Sección de Matemática de la Facultad de Ciencias. (Madrid)
- Univ. Nac. La Plata Publ. Fac. Ci. Fisicomat. Serie Segunda Rev. (or Contrib.)* Universidad Nacional de la Plata. Publicaciones de la Facultad de Ciencias Fisicomatemáticas. Serie Segunda. Revista (or Contribuciones). (La Plata)
- Univ. Nac. La Plata Publ. Fac. Ci. Fisicomat. Serie Tercera Publ. Esp.* Universidad Nacional de la Plata. Publicaciones de la Facultad de Ciencias Fisicomatemáticas. Serie Tercera. Publicaciones Especiales. (La Plata)
- Univ. Nac. Tucumán Publ.* Universidad Nacional de Tucumán. Publicación. (Tucumán)
- Univ. Nac. Tucumán Rev. Ser. A.* Universidad Nacional de Tucumán. Facultad de Ciencias Exactas y Tecnología. Revista. Serie A. Matemáticas y Física Teórica. (Tucumán)
- Univ. Repúb. Fac. Ingen. Agrimens. Montevideo Publ. Inst. Mat. Estadist.* Universidad de la República. Facultad de Ingeniería y Agrimensura. Montevideo-Uruguay. Publicaciones del Instituto de Matemática y Estadística. (Montevideo) (Formerly: *Fac. Ingen. Montevideo Publ. Inst. Mat. Estadist.*)
- Uspehi Fiz. Nauk.* Akademija Nauk SSSR. Uspehi Fizičeskikh Nauk. (Moscow-Leningrad) (Translated as: *Soviet Physics Uspekhi*)
- Uspehi Mat. Nauk.* Akademija Nauk SSSR i Moskovskoe Matematičeskoe Obščestvo. Uspehi Matematičeskikh Nauk. (Moscow-Leningrad) (Selected articles translated as: *Russian Math. Surveys*)
- Užgorod. Gos. Univ. Naučn. Zap. MVO USSR.* Užgorodskii Gosudarstvennyi Universitet. Naučnye Zapiski. (Lvov)
- Verh. Nederl. Akad. Wetensch. Afd. Naturk. Sect. I.* Verhandelingen der Koninklijke Nederlandse Akademie van Wetenschappen, Afdeling Natuurkunde. Eerste Sectie. (Amsterdam)
- Vosci Akad. Navuk BSSR Ser. Fiz.-Tehn. Navuk.* Vosci Akademii Navuk BSSR. Serija Fizika-Tehničnyh Navuk. (Minsk)
- Vestnik Akad. Nauk Kazah. SSR.* Vestnik Akademii Nauk Kazahskoi SSR. (Alma-Ata)
- Vestnik Leningrad. Univ.* Vestnik Leningradskogo Universiteta. (Leningrad) (See *Vestnik Leningrad. Univ. Ser. Fiz. Him. and Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.*)

ABBREVIATIONS OF NAMES OF JOURNALS

- Vestnik Leningrad. Univ. Ser. Fiz. Him.* Vestnik Leningradskogo Universiteta. Serija Fiziki, Himii. (Leningrad) (Formerly listed as: *Vestnik Leningrad. Univ.*)
- Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* Vestnik Leningradskogo Universiteta. Serija Matematiki, Mehaniki i Astronomii. (Leningrad) (Formerly listed as: *Vestnik Leningrad. Univ.*)
- Vestnik Moskov. Univ. Ser. I Mat. Meh.* Vestnik Moskovskogo Universiteta. Serija I. Matematika, Mekhanika. (Moscow)
- Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* Vestnik Moskovskogo Universiteta. Serija III. Fizika, Astronomija. (Moscow)
- Vestnik Statist.* Vestnik Statistiki. Organ Central'nogo Statisticheskogo Upravlenija pri Sovete Ministrov SSSR. (Moscow)
- Vierteljahr. Naturforsch. Ges. Zürich.* Vierteljahrsschrift der Naturforschenden Gesellschaft in Zürich. (Zürich)
- Vijnana Parishad Anusandhan Patrika.* Vijnana Parishad Anusandhan Patrika [The Research Journal of the Hindi Science Academy]. (Allahabad)
- Vilniaus Valst. Univ. Mokslu Darbai Mat. Fiz. Chem. Mokslų Ser. TSRS Aukštojo Mokslo Ministerija.* Vilniaus Valstybinis Universitetas. Mokslu Darbai. Matematikos, Fizikos ir Chemijos Mokslų Serija. Ministerstvo Vysshego Obrazovaniya SSSR. Vii'nyuskii Gosudarstvennyi Universitet. Uchenye Trudy. Serija Matematicheskikh, Fizicheskikh i Himicheskikh Nauk. (Vilna)
- Virginia J. Sci.* The Virginia Journal of Science. A Journal Issued Quarterly by the Virginia Academy of Science. (Blackburg, Va.)
- Voprosy Istor. Estest. i Tehn.* Akademija Nauk SSSR. Voprosy Istorii Estestvoznaniya i Tehniki. (Moscow)
- Voprosy Kosmog.* Akademija Nauk SSSR. Voprosy Kosmogonii. (Moscow)
- Voprosy Meh.* Moskovskii Gosudarstvennyi Universitet im. M. V. Lomonosova. Voprosy Mekhaniki. (Moscow)
- Vsesojuz. Zaochn. Inst. Inž. Železn. Transport. Učen. Zap. Trudy Kafedr Vysš. Mat. i Teoret. Meh. SSSR.* Ministerstvo Putei Soobščeniya Vsesojuznyi Zaochnyi Institut Inženerov Železnodorožnogo Transporta. Uchenye Zapiski. Trudy Kafedr Vysšei Matematiki i Teoreticheskoi Mekhaniki. (Moscow)
- Vyčisl. Mat.* Akademija Nauk SSSR. Vyčislitel'nyi Centr. Vyčislitel'naja Matematika. (Moscow)
- Wiadom. Mat.* Roczniki Polskiego Towarzystwa Matematycznego. Ser. II. Wiadomości Matematyczne. (Warsaw)
- Wiss. Z. Ernst-Moritz-Arndt-Univ. Greifswald Math.-Nat. Reihe.* Wissenschaftliche Zeitschrift der Ernst-Moritz-Arndt-Universität Greifswald. Mathematisch-Naturwissenschaftliche Reihe. (Greifswald) (Formerly: *Wiss. Z. Univ. Greifswald Math.-Nat. Reihe*)
- Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen.* Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen. (Jena/Thüringen)
- Wiss. Z. Hochsch. Elektrotech. Ilmenau.* Wissenschaftliche Zeitschrift der Hochschule für Elektrotechnik. Ilmenau. (Ilmenau)
- Wiss. Z. Hochsch. Schwermaschinenbau Magdeburg.* Wissenschaftliche Zeitschrift der Hochschule für Schwermaschinenbau. Magdeburg. (Magdeburg) (Continued as: *Wiss. Z. Techn. Hochsch. Otto von Guericke Magdeburg*)
- Wiss. Z. Humboldt-Univ. Berlin Math.-Nat. Reihe.* Wissenschaftliche Zeitschrift der Humboldt-Universität Berlin. Mathematisch-Naturwissenschaftliche Reihe. (Berlin)
- Wiss. Z. Karl-Marx-Univ. Leipzig Math.-Nat. Reihe.* Wissenschaftliche Zeitschrift der Karl-Marx-Universität Leipzig. Mathematisch-Naturwissenschaftliche Reihe. (Leipzig)
- Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Nat. Reihe.* Wissenschaftliche Zeitschrift der Martin-Luther-Universität Halle-Wittenberg. Mathematisch-Naturwissenschaftliche Reihe. (Halle-Wittenberg)
- Wiss. Z. Pädagog. Hochsch. Potsdam Math.-Nat. Reihe.* Wissenschaftliche Zeitschrift der Pädagogischen Hochschule Potsdam. Mathematisch-Naturwissenschaftliche Reihe. (Potsdam)
- Wiss. Z. Techn. Hochsch. Chem. Leuna-Merseburg.* Wissenschaftliche Zeitschrift der Technischen Hochschule für Chemie Leuna-Merseburg. (Leuna-Merseburg)
- Wiss. Z. Techn. Hochsch. Dresden.* Wissenschaftliche Zeitschrift der Technischen Hochschule Dresden. (Dresden)
- Wiss. Z. Techn. Hochsch. Otto von Guericke Magdeburg.* Wissenschaftliche Zeitschrift der Technischen Hochschule Otto von Guericke Magdeburg. (Magdeburg) (Formerly: *Wiss. Z. Hochsch. Schwermaschinenbau Magdeburg*)
- Wiss. Z. Univ. Greifswald Math.-Nat. Reihe.* Wissenschaftliche Zeitschrift der Universität Greifswald. Mathematisch-Naturwissenschaftliche Reihe. (Greifswald) (Continued as: *Wiss. Z. Ernst-Moritz-Arndt-Univ. Greifswald Math.-Nat. Reihe*)
- Yokohama Math. J.* Yokohama Mathematical Journal. (Yokohama)
- Z. Angew. Math. Mech.* Zeitschrift für Angewandte Mathematik und Mechanik. Ingenieurwissenschaftliche Forschungsarbeiten. (Berlin)
- Z. Angew. Math. Phys.* Zeitschrift für Angewandte Mathematik und Physik. ZAMP. Journal of Applied Mathematics and Physics. Journal de Mathématiques et de Physiques Appliquées. (Basel)
- Z. Angew. Phys.* Zeitschrift für Angewandte Physik. (Berlin)
- Z. Astrophys.* Zeitschrift für Astrophysik. (Berlin-Göttingen-Heidelberg)
- Ž. Eksp. Teoret. Fiz. Akademija Nauk SSSR. Žurnal Eksperimental'noi i Teoreticheskoi Fiziki.* (Moscow) (Translated as: *Soviet Physics JETP*)
- Z. Flugwiss.* Zeitschrift für Flugwissenschaften. (Braunschweig)
- Z. Math. Logik Grundlagen Math.* Zeitschrift für Mathematische Logik und Grundlagen der Mathematik. (Berlin)
- Z. Meteorol.* Zeitschrift für Meteorologie. (Berlin)
- Z. Naturforsch.* Zeitschrift für Naturforschung. (Tübingen)
- Z. Physik.* Zeitschrift für Physik. (Berlin-Göttingen-Heidelberg)
- Ž. Tehn. Fiz. Akademija Nauk SSSR. Žurnal Tehničkoj Fiziki.* (Moscow-Leningrad) (Translated as: *Soviet Physics Tech. Phys.*)
- Ž. Vyčisl. Mat. i Mat. Fiz. Akademija Nauk SSSR. Žurnal Vyčislitel'noi Matematiki i Matematicheskoi Fiziki.* (Moscow) (Translated as: *U.S.S.R. Comput. Math. and Math. Phys.*)
- Z. Wahrscheinlichkeitstheorie und Verw. Gebiete.* Zeitschrift für Wahrscheinlichkeitstheorie und verwandte Gebiete. (Berlin)
- Zastos. Mat.* Polska Akademia Nauk. Instytut Matematyczny. Zastosowania Matematyki. (Warsaw)
- Zbl. Zentralblatt für Mathematik und ihre Grenzgebiete.* (Berlin-Göttingen-Heidelberg)
- Zbl. Math.* Zentralblatt für Mathematik und ihre Grenzgebiete. (Berlin-Göttingen-Heidelberg) (Usually abbreviated Zbl in the text of *Math. Reviews*)
- Zeszyty Nauk. Univ. Jagiello. Prace Mat. Zeszyty Naukowe Uniwersytetu Jagiellońskiego. Prace Matematyczne.* (Matematyka, Fizyka, Chemia) (Kraków)
- Zeszyty Nauk. Univ. Mickiewicza. Zeszyty Naukowe Uniwersytetu im. A. Mickiewicza.* (Poznań)

ERRATA AND ADDENDA

VOLUME 22

#11297: Mandan, Sahib Ram

The reviewer accepts the author's contention that the last two lines of the review should read: "... joined by four lines having a transversal, the same transversal for all the eight pairs of tetrahedra. The eight lines of four collinear points lie in a hyperplane and belong to a regulus."

VOLUME 23

#A4206: Richter, Hans

In line 7 from the bottom, insert the word "Mass" after "Lebesguesches"; in line 6 from the bottom, replace $g_i \leq 0$ by $g_i \geq 0$; and in line 3 from the bottom, replace "alternativtestes" by "Alternativtestes".

VOLUME 25

#3395: Freudenthal, Hans

The reviewer accepts the author's contention that the fact mentioned is not properly representative of the content of the paper; it is evident from Cartan's list and does not need any proof. The paper is in fact a critical analysis of Rosenfeld's investigations, with no positive result at all.

#3525: Mazur, Barry

The reviewer has communicated the following addendum. The homotopy 4-sphere W constructed by the author has been shown by Zeeman to be a topological 4-sphere; consequently, there is a locally flat 2-sphere Σ in S^4 such that $\pi(S^4 - \Sigma)$ is a (non-trivial) extension of the binary icosahedral group by the infinite cyclic group (the author's claim that this group is the direct product of the icosahedral group and the infinite cyclic group is incorrect); this 2-sphere Σ can easily be constructed by spinning a trefoil, simultaneously twisting it five times.

The part of the paper relating to S^5 is incorrect. Zeeman has observed to the reviewer that the mistake occurs on p. 248, l. 22; in fact the S^3 constructed in S^5 is not the set of fixed points of Φ , but is only set-wise fixed. Thus the higher-dimensional Smith conjecture remains open: If a periodic autohomeomorphism of S^n has fixed-point set S^{n-2} , is S^{n-2} unknotted?

#3786: Alekseev, V. M.

Delete the words "Author's summary" in the first line of the review.

#3867: McLachlan, Dan, Jr.; Chamberlain, L. L.

The reviewer wishes to add the following remark at the end of the review: See also Problem 13, Chapter 5, in J. Riordan's book, *Combinatorial analysis* [John Wiley & Sons, Inc., New York, 1958; MR 20 #3077] and Riordan's review of a paper of Rosenstock and Maradudin [Amer. J. Phys. 30 (1962), 330-332; MR 24 #A3078].

#3868: Banaschewski, Bernhard

The author requests that his original usage of "inductive partially ordered set" be retained in place of "partially

ordered set of natural numbers" in the first and last sentences.

#3958: Taft, E. J.

The last line of the review should be corrected to read "... $\exp(\text{Ad } z)$ for some $z \in N$, and $\tau z = z$ for all $\tau \in G$, τ an automorphism, and $\tau z = -z$ for all $\tau \in G$, τ an anti-automorphism."

#4054, #4055: Oxtoby, J. C.

The review of #4054 appears under #4055, and vice versa.

#4473: Matsumoto, Makoto; Kitamura, Shin-ichi

The pagination given in the heading should be 97-122, not 97-123.

#5104: Ward, Harold N.

The pagination given in the heading should be 113-114, not 121-122.

#5120: Wagner, A.

In line 11 of the review, the formula $a \cdot x = b = a \cdot y$ should read $a \cdot x = b = y \cdot a$.

#5175: Malliavin, Paul; Rubel, L. A.

The reviewer has communicated the following revision. Statement of main theorem: To every $g \in A$, $g(z) = 0$ ($z \in \Lambda'$) there is an $f(z) \in A$, $f(z) = 0$ ($z \in \Lambda$), and satisfying $|f(z)| \leq |g(z)|$ on the imaginary axis, if and only if for $0 < u < v$

$$n(v, \Lambda) - n(u, \Lambda) < n(v, \Lambda') - n(u, \Lambda') + O(1).$$

Addendum: As an application the completeness problem of $\{e^{-\lambda u}\}$ in a horizontal strip under uniform convergence on compact sets is solved completely. The paper also contains a discussion of the following problem: Given a sequence Λ of positive numbers, find the minimum of $\limsup_{z \rightarrow \infty} \log |f(z)|/|z|$ as $f(z)$ runs through all functions u in A vanishing on Λ . The surprising result is that the minimum is not always given by $f_0(z) = \prod (1 - z^2/\lambda^2)$ ($\lambda \in \Lambda$). A necessary and sufficient density condition is given under which $f_0(x)$ does yield the minimum.

VOLUME 26

#88: Cohen, Eckford

The last sentence of the review should be replaced by the following sentence: The author proves that $E(n) \sim (n/\log n)^2 \beta(n)$ as $n \rightarrow \infty$ through even numbers.

#324: Hayman, W. K.

In the first line after the displayed formula (v) read δ for β . In the third line after (v) delete the symbol \times at the end of the line.

#503: Vincze, E.

The reviewer communicates the following addendum to the review. The author uses some simple lemmas on determinants and linear dependence to solve generalized functional equations of Pexider and Aczél, which were stated in the original reviews.

#508: Aczél, J.

The reviewer offers the following revision of his review. The general (not necessarily continuous) solution of

the functional equations (with f and g ranging over arbitrary sets and having values in arbitrary fields) $\sum_{k=1}^n f_k(x)g_k(y) = 0$ is presented, and some applications given.

#1035: Feinberg, E. L.

In line 5 of the second paragraph, change the word "intersection" to "interaction".

#1271: Lenz, Hanfried

Replace the words "strong ordered" by "near-ordered".

#1653: Kangro, G.; Tynnov, M. [Tönnov, M.]

In line 7 replace $|B|$ by B , and in line 9 replace "A-summable" by " $|A|$ -summable".

#3252: Pan, H. H.

Add the following information to the heading: *addendum*, *ibid.* 16 (1963), 304.

TRANSLITERATION OF RUSSIAN

Russian Letter Cap. Ital.	Mathematical Reviews	Zentralblatt für Mathematik	Bulletin Signalétique	Applied Mechanics Reviews	Science Abstracts	U.S. Library of Congress	Amer. Slavic & E. European Review	Journal of Symbolic Logic
А а	a	a	a	a	a	a	a	a
Б б	b	b	b	b	b	b	b	b
В в	v	v	v	v	v	v	v	v
Г г	g	g	g	g	g	g	g	g
Д д	d	d	d	d	d	d	d	d
Е е	e	e	e	e	e	e	e	e
Ё ё	e	e	ë	ë	ë	ë	ë	é
Ж ж	zh	zh	zh	zh	zh	zh	zh	ž
З з	z	z	z	z	z	z	z	z
И и	i	i	i	i	i	i	i	i
Й й	j	j	j	j	j	j	j	j
К к	k	k	k	k	k	k	k	k
Л л	l	l	l	l	l	l	l	l
М м	m	m	m	m	m	m	m	m
Н н	n	n	n	n	n	n	n	n
О о	o	o	o	o	o	o	o	o
П п	p	p	p	p	p	p	p	p
Р р	r	r	r	r	r	r	r	r
С с	s	s	s	s	s	s	s	s
Т т	t	t	t	t	t	t	t	t
У у	u	u	u	u	u	u	u	u
Ф ф	f	f	f	f	f	f	f	f
Х х	h	ch	kh	kh	kh	kh	kh	h
Ц ц	c	c	c	ts	ts	ts	c	c
Ч ч	ch	ch	ch	ch	ch	ch	ch	č
Ш ш	sh	sh	sh	sh	sh	sh	sh	š
Щ щ	shch	shch	shch	shch	shch	shch	shch	šč
Ъ ъ	''	''	''	''	''	''	''	''
Ы ы	y	y	y	i	ȳ	y	y	y
Ь ь	y	y	y	i	ȳ	y	y	y
Э э	è	è	e	é	é	é	è	e
Ю ю	ju*	ju	ju	yu	yu	iu	ju	ú
Я я	ja†	ja	ja	ya	ya	ia	ja	á

* formerly yu
† formerly ya



